S2880-1-U

Licensed Drivers

1,976,726

Child Fatalities

7

Total Fatalities

515

LifeToll 171

1989 Iowa Accident Facts

Iowa Department of Transportation

Foreword

The accident summary and vehicle pages emphasize the number of accidents. Percentages are based on known information; unknown cases are also noted. Percentages may not equal 100 due to rounding.

Many fact book users have requested that the book be published earlier in the year. Every effort is made to complete the book as soon as possible, but we also want to ensure the accident statistics file is complete and accurate before the production of the fact book begins.

We hope that this year's fact book provides the information you need. We welcome your comments and suggestions.

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Acknowledgement

The Iowa Department of Transportation thanks all law enforcement agencies and officers for their work in accident investigation which made this report possible. All information concerning Iowa traffic accidents was taken from report forms provided by investigating officers and drivers involved in accidents.

We hope this information will help analyze the causes of traffic accidents in Iowa, and that it emphasizes the need for concerned, well-prepared drivers and a safe driving environment.

Prepared by
Driver Safety & Improvement Section
Office of Driver Services

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Glossary

Traffic accident: Iowa law requires motorists to report any accident which involves one or more vehicles and results in death, personal injury or property damage of at least $500. The information in this report, however, is based only on those accidents which occurred on public roads.

Fatal accident: Accident in which one or more persons are killed.

Personal injury accident: Accident in which no one is killed, but one or more persons are injured.

Property damage accident: Accident in which no one is killed or injured, but there is property damage of $500 or more.

Fatality: Person killed as a result of a traffic accident.

Alcohol-related: An accident where either a driver, bicyclist or pedestrian is listed on the motor vehicle accident report as drinking prior to the accident.

Vehicle miles: Iowa vehicle-mile figures are the estimated total number of miles traveled on Iowa primary and secondary highways, urban and rural roads, and streets by all vehicles during a given period.

Fatality rate: Number of fatalities per 100 million vehicle miles.

Accident rate: Number of accidents per 100 million vehicle miles, unless otherwise stated.

Occupant restraint: Safety belt, child safety seat or passive restraints.

SUMMARY

General

1989: A look at Iowa

Accidents by Month	Fatal Accidents by Month		Fatalities
70,716		452	515
8,435	Dec.	43	47
6,720	Nov.	30	32
6,408	Oct.	41	46
5,538	Sept.	47	51
5,612	Aug.	44	54
5,669	July	50	59
5,708	June	37	45
5,648	May	46	50
4,722	April	36	41
5,352	March	33	39
5,590	Feb.	17	19
5,314	Jan.	28	32

In Iowa there was . . .

1 accident every 7.4 minutes

1 driver out of 16.8 involved in an accident

1.4 lives lost per day because of traffic accidents. (A total of 515 lives were lost in 1989.

81.1 persons injured per day because of traffic accidents. (A total of 29,597 persons were injured in 1989.)

In Iowa, motor vehicle accidents increased 4.1 percent in 1989 from the 67,901 accidents recorded in 1988. Fatalities decreased 7.5 percent in 1989 from 557 fatalities reported in 1988.

Nationally there were:

40,718 fatal accidents

45,555 fatalities

Nationally, fatalities decreased 3.3 percent in the U.S. during 1989 from the 47,093 fatalities reported in 1988.

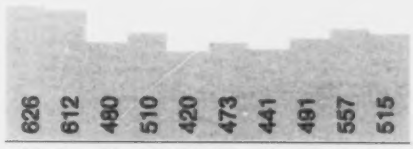
Ten-Year Iowa Traffic Trends 1980-1989

Accidents

Thousands of accidents
Down 9.1% in 10 years

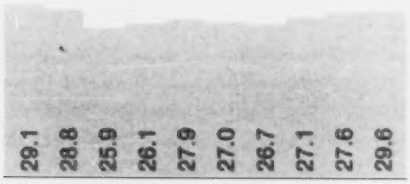
Deaths

Number of deaths
Down 17.7% in 10 years



Injuries

Thousands of injuries
Up 1.7% in 10 years

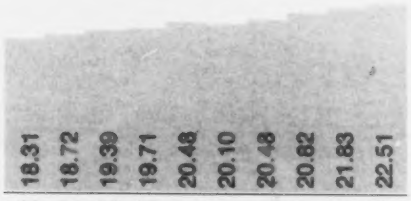


Mileage Death Rate

Death per 100 million vehicle miles
Down 33.0% in 10 years

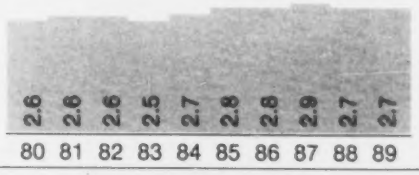
Vehicle Miles Traveled

Billions of miles
Up 22.9% in 10 years



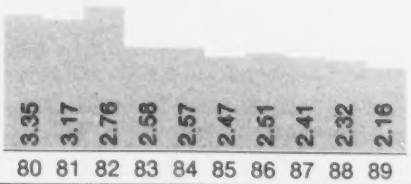
Motor Vehicle Registrations

Millions of vehicles
Up 3.8% in 10 years



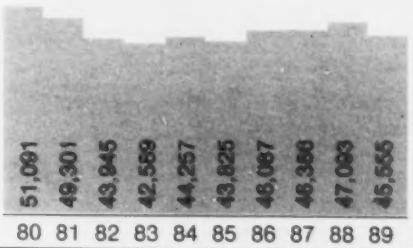
National Fatality Rate

Deaths per 100 million vehicle miles
Down 35.5% in 10 years



National Fatalities

Number of deaths
Down 10.8% in 10 years



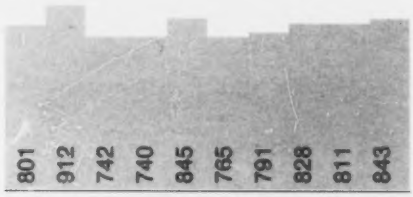
Ten-Year Iowa Traffic Trends
1980-1989

Pedestrian Deaths

Number of deaths
Up 2.6% in 10 years

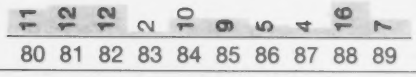
Pedestrian Injuries

Number of injuries
Up 5.2% in 10 years



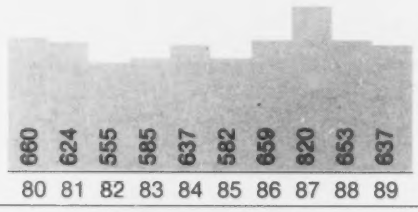
Bicyclist Deaths

Number of deaths



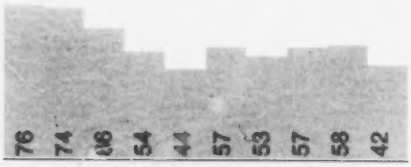
Bicyclist Injuries

Number of injuries
Down 3.5% in 10 years



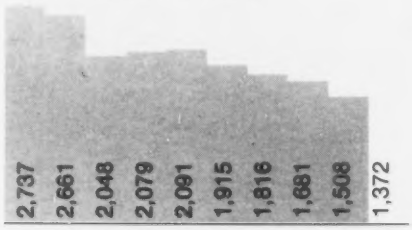
Motorcyclist Deaths

Number of deaths
Down 44.7% in 10 years



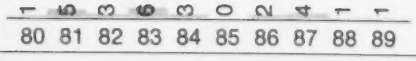
Motorcyclist Injuries

Number of injuries
Down 49.9% in 10 years



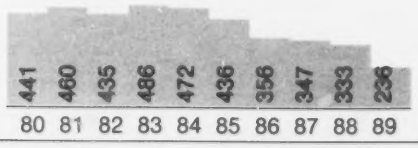
Moped Deaths

Number of deaths



Moped Injuries

Number of injuries
Down 46.5% in 10 years



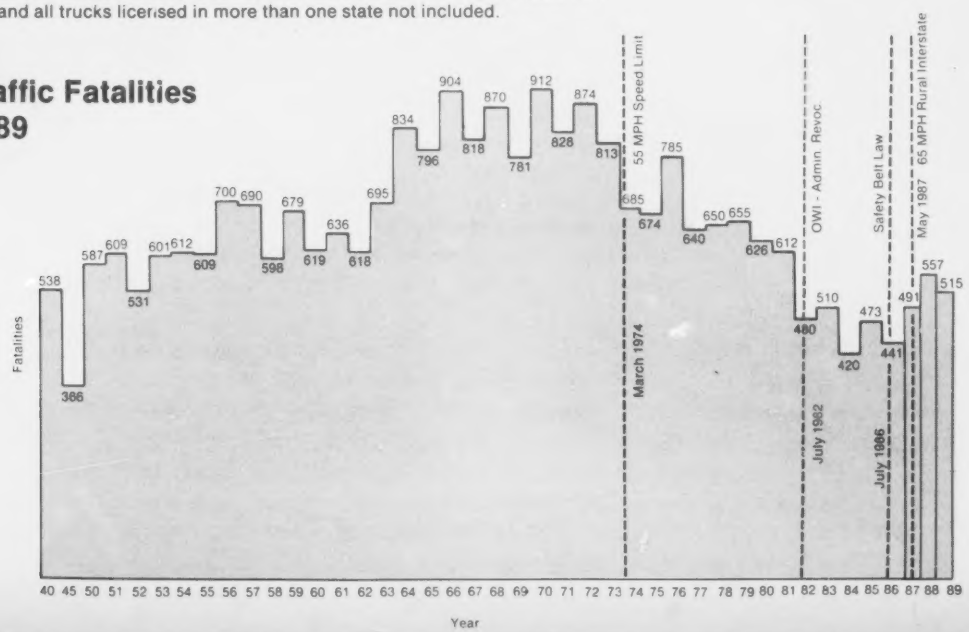
SUMMARY

Iowa Trends 1970-1989

Year	All Acc.	Fatalities	Persons Injured	Fatal Acc.	Injury Acc.	Vehicle Miles (Million)	Fatality Rate[2]	Fatal Acc. Rate[2]	All Acc. Rate[2]	Licensed Drivers	Motor Vehicle Registrations
1970	87,808	912	33,101	752	22,339	16,053	5.68	4.68	547.0	1,678,262	1,839,530
1971	87,100	828	31,599	681	21,411	16,582	4.99	4.11	525.3	1,704,137	1,916,850
1972	91,916	875	35,484	722	23,814	17,127	5.11	4.22	536.7	1,752,595	2,012,245
1973	96,620	813	35,059	682	24,683	17,691	4.60	3.86	546.2	1,787,169	2,095,330
1974	91,117	685	31,741	583	22,851	17,250	3.97	3.38	528.2	1,846,870	2,178,530
1975	94,825	674	32,802	578	23,082	17,853	3.78	3.24	531.1	1,865,754	2,250,417
1976[1]	98,000	785	34,096	663	24,218	18,441	4.26	3.60	531.4	1,959,150	2,300,721
1977	87,771	640	32,289	561	22,358	19,028	3.36	2.95	461.3	2,085,647	2,356,327
1978	91,213	650	31,631	563	21,651	19,467	3.34	2.89	468.6	2,398,656	2,474,790[3]
1979	86,969	655[4]	29,972	566[4]	20,727	18,959	3.45	2.99	458.7	2,419,501	2,540,547[3]
1980	77,800	626	29,100	541	20,280	18,305	3.42	2.96	425.0	2,408,793	2,554,379[3]
1981	68,263	612	28,776	529	19,945	18,715	3.27	2.83	364.8	2,472,614	2,592,604[3]
1982	61,549	480	25,905	431	17,933	19,391	2.48	2.22	317.4	1,977,911[5]	2,577,994[3]
1983	61,190	510	26,050	434	18,049	19,712	2.59	2.20	310.4	1,998,982	2,542,267[3]
1984	62,818	420	27,868	376	19,378	20,481	2.05	1.84	306.7	2,000,085	2,655,529[3]
1985	63,624	473	26,988	415	18,752	20,104	2.35	2.06	316.5	1,970,272	2,796,172[3]
1986	61,683	441	26,669	388	18,522	20,481	2.15	1.89	301.2	1,949,108	2,841,138[3]
1987	63,458	491	27,074	443	18,695	20,824	2.36	2.13	304.7	1,897,495	2,892,994[3]
1988	67,901	557	27,578	494	19,123	21,834	2.55	2.26	311.0	1,940,463	2,701,924[6]
1989	70,716	515	29,597	452	20,612	22,509	2.29	2.01	314.1	1,976,726	2,730,604[6]

1 All accident figures, except figures on fatal accidents, for 1976 are estimated because of missing data.
2 Per 100 million vehicle miles traveled.
3 Revised by DOT Office of Driver Services to exclude trailers, travel trailers, miscellaneous vehicles, and trucks licensed to operate in more than one state. This does include official vehicles.
4 Beginning with 1979, figures for fatalities and fatal accidents are based on persons who died within 30 days of the traffic accident. Previous years' totals included persons who died within one year of the accident.
5 Drop in number of licensed drivers is due to more accurate method of computation.
6 Dealer titles and all trucks licensed in more than one state not included.

Iowa Traffic Fatalities 1940-1989



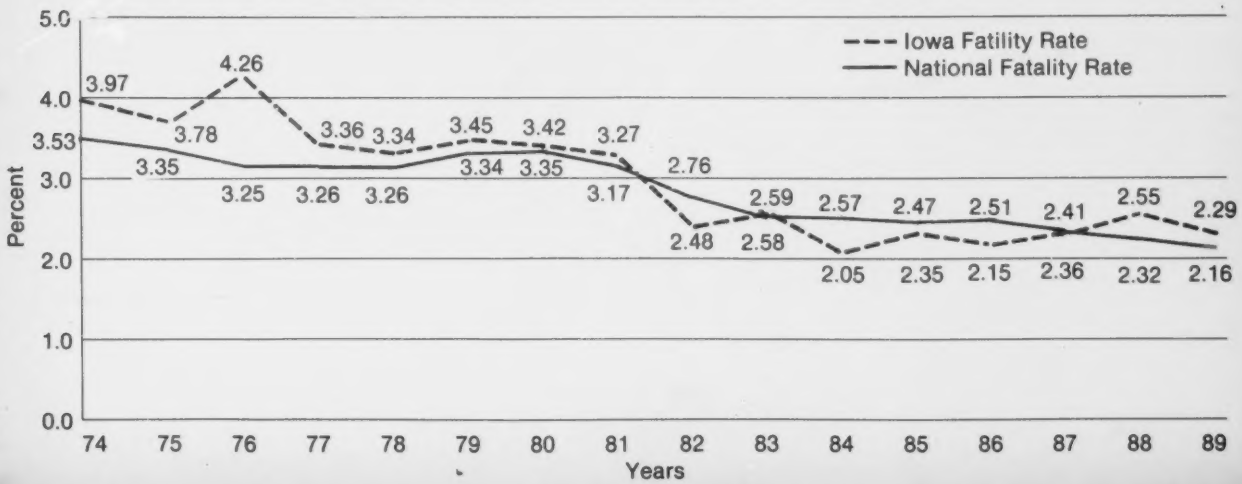
SUMMARY

National Trends 1970-1989

Year	All Acc.[1]	Fatalities	Persons Injured[2]	Fatal Acc.	Vehicle Miles (Billion)[3]	Fatality Rate[4]	Fatal Acc. Rate[4]	All Acc. Rate[4]	Licensed Drivers[3 6]	Motor Vehicle Registrations[3 6]
1970	16,400,000	52,627	2,961,000	NA	1,100	4.74	NA	1,477.5	111,542,787	111,242,295
1971	17,000,000	52,542	4,044,000	NA	1,179	4.46	NA	1,441.9	114,425,900	116,330,037
1972	16,600,000	54,589	3,761,000	NA	1,260	4.33	NA	1,317.5	118,414,474	122,556,550
1973	15,600,000	54,052	2,960,000	NA	1,313	4.12	NA	1,188.1	121,545,736	130,024,945
1974	15,600,000	45,196	4,075,000	NA	1,281	3.53	NA	1,217.8	125,426,582	134,899,955
1975	16,500,000	44,525	4,225,000	39,161	1,328	3.35	2.95	1,242.5	129,790,666	137,912,779
1976	16,800,000	45,523	4,107,000	39,747	1,402	3.25	2.84	1,198.3	134,035,641	143,476,236
1977	17,600,000	47,878	4,392,000	42,210	1,467	3.26	2.88	1,199.7	138,120,893	146,973,718
1978	18,300,000	50,331	3,827,000	44,433	1,545	3.26	2.88	1,184.5	140,843,907	153,282,476
1979	18,100,000	51,093	4,248,000	45,223	1,529	3.34	2.96	1,184.4	143,283,995	157,291,431
1980	17,900,000	51,091	3,694,000	45,284	1,527	3.35	2.97	1,171.2	145,295,036	161,490,159
1981	18,000,000	49,301	5,019,000	44,000	1,553	3.17	2.83	1,159.0	147,075,169	164,287,643
1982	18,100,000	43,945	NA	39,092	1,595	2.76	2.45	1,134.8	150,309,519	165,203,000
1983	18,300,000	42,589	NA	37,976	1,653	2.58	2.30	1,107.1	154,221,003	169,395,000
1984	18,800,000	44,257	NA	39,631	1,720	2.57	2.30	1,093.0	155,391,000	171,932,148
1985	19,300,000	43,825[8]	NA	39,168	1,774	2.47	2.21	1,087.9	158,224,000	175,709,000
1986	17,700,000	46,087[8]	NA	41,090	1,835	2.51	2.24	964.6	159,487,000	181,453,661
1987	20,800,000	46,390[8 5]	NA	41,438[5]	1,921[5]	2.41[5]	2.16[5]	1,082.7[5]	161,818,000[5]	183,930,221[5]
1988	20,600,000	47,093[7 8]	NA	42,119[7]	2,026[5]	2.32[7]	2.08[7]	1,017.0[7]	162,853,255[5]	184,396,732[5]
1989	12,800,000[9]	45,555	NA	40,718	2,107	2.16	1.93	607.5	165,555,295	187,260,547

Figures obtained from U.S. Department of Transportation, National Highway Traffic Safety Administration, unless otherwise noted. All rates calculated by the Office of Driver Services.

1 Figures from National Safety Council.
2 National Health Interview System, National Center for Health Statistics.
3 Federal Highway Administration, Highway Statistical Division
4 Per 100 million vehicle miles traveled.
5 Updated/revised.
6 Estimated.
7 Preliminary.
8 Counting only fatalities who died within 30 days after date of accident.
9 This figure is an estimated number and the method of estimating was revised, beginning with 1989 figures.



Who Was Involved/1989

Drivers/Age

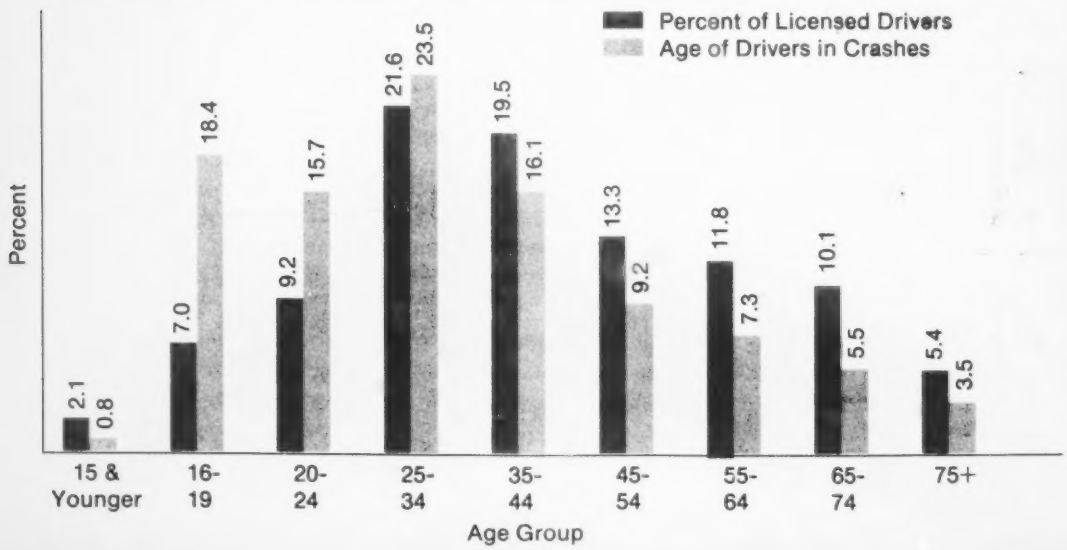
Age	Licensed Drivers[1]	Drivers Involved in Accidents	Drivers Involved in Fatal Acc.	Acc. Rate[2 3]	Fatal Acc. Rate[2 3]
15 & younger	41,564	933	6	224.5	1.4
16	37,383	5,096	21	1,363.2	5.6
17	30,520	5,449	29	1,785.4	9.5
18	34,169	5,459	38	1,597.6	11.1
19	35,709	4,844	26	1,356.5	7.3
20	34,645	4,003	24	1,155.4	6.9
21	34,674	3,770	16	1,087.3	4.6
22	36,783	3,555	15	966.5	4.1
23	37,504	3,304	21	881.0	5.6
24	37,926	3,157	13	832.4	3.4
25-34	427,524	26,594	167	622.0	3.9
35-44	385,938	18,183	117	471/1	3.0
45-54	263,096	10,401	67	395.3	2.5
55-64	233,334	8,219	50	352.2	2.1
65-74	200,115	6,233	32	311.5	1.6
75 & older	105,842	3,990	34	377.0	3.2
Total (age known)	1,976,726	113,190	676		
Age unknown		4,740	4		
GRAND TOTAL	1,976,726	117,930	680	596.6	3.4

[1] Includes instruction permits and school permits (permits to drive to and from school)

[2] Accidents/fatal accidents per 10,000 licensed drivers

[3] Accident rates can be converted to percentage figures by moving the decimal two spaces to the left. For example - for age 17 the accident rate is 1,785.4 per 10,000 licensed drivers. As a percentage, the accident rate is 17.85. This means 18 percent of all 17-year-olds licensed in Iowa were involved in accidents during 1989.

Licensed vs. Crash-Involved Drivers by Age



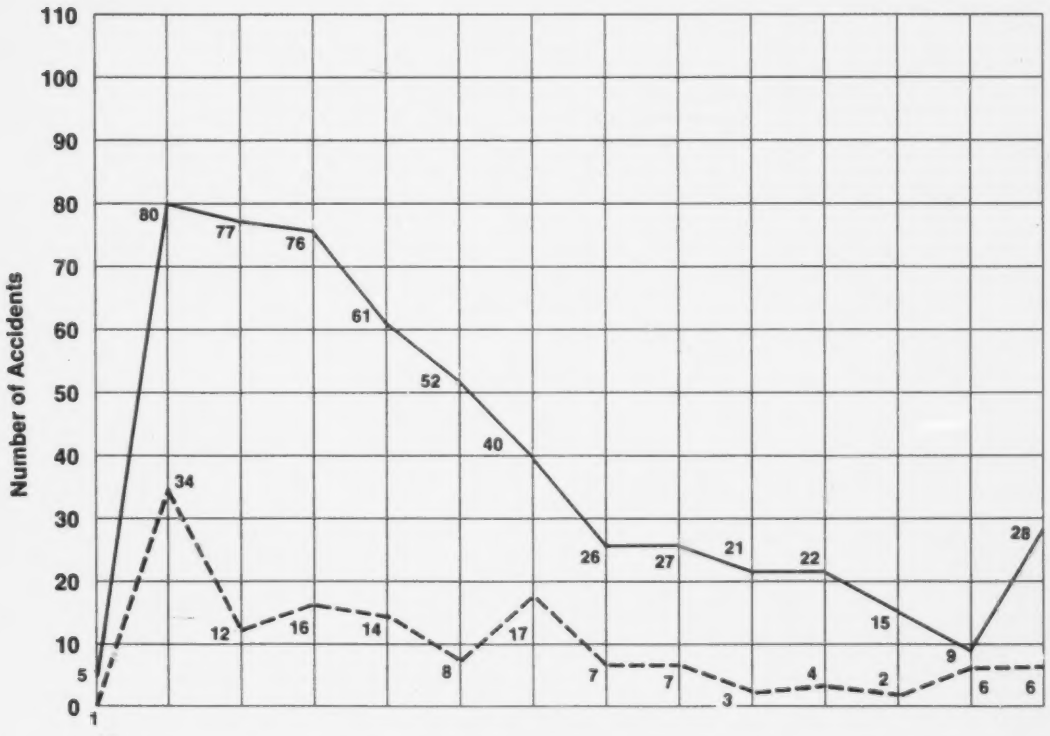
Who Was Involved/1989

Drivers/Sex

Sex	Licensed Drivers[1]	Drivers Involved In Accidents		Driver Involved In Fatal Acc.		Acc. Rate[2 3]	Fatal Acc. Rate[2 3]
Male	956,288	70,435	(62.0)	540	(79.8)	736.5	5.6
Female	1,020,438	43,224	(38.0)	137	(20.2)	423.6	1.3
Total (sex known)	1,976,726	113,659		677			
Sex Unknown		4,271		3			
GRAND TOTAL	1,976,726	117,930		680		596.6	3.4

[1] Includes instruction permits and school permits (permits to drive to and from school)
[2] Accidents/fatal accidents per 10,000 licensed drivers
[3] Accident rates can be converted to percentage figures by moving the decimal two spaces to the left.

Fatal Accidents

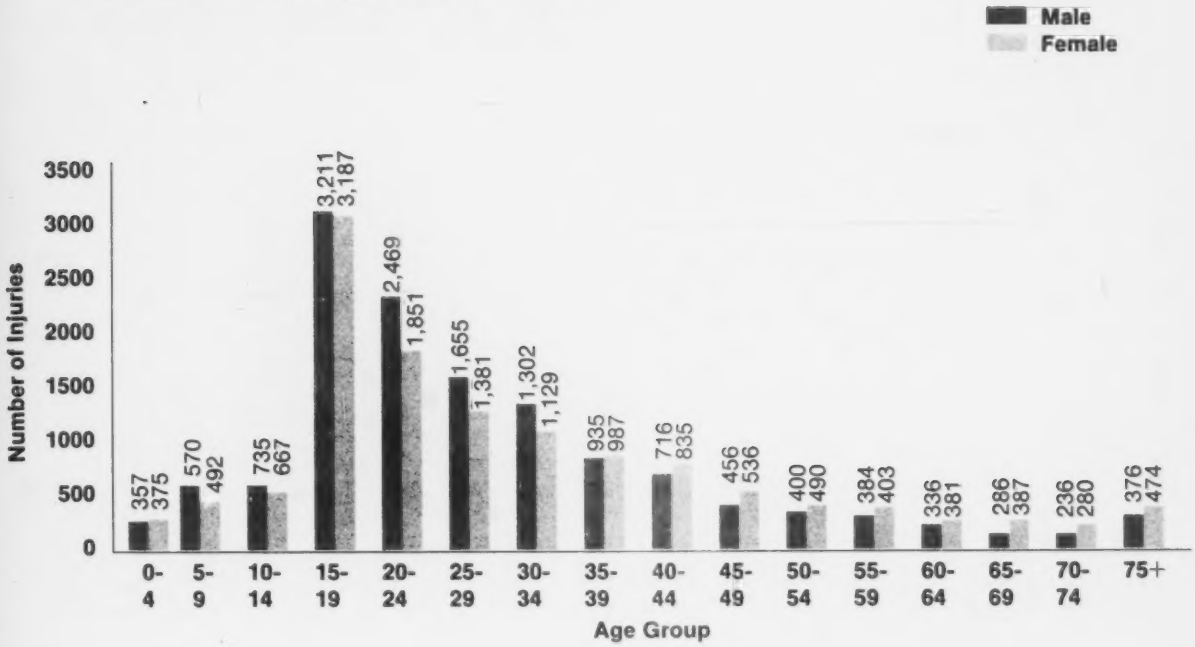


	15 & under	16-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75+	
Total:	6	114	89	92	75	60	57	33	34	24	26	17	15	34 =	676
														Unknown	4
														Total	680

Who Was Involved/1989

Injured/Age

People Injured By Age Group and Sex

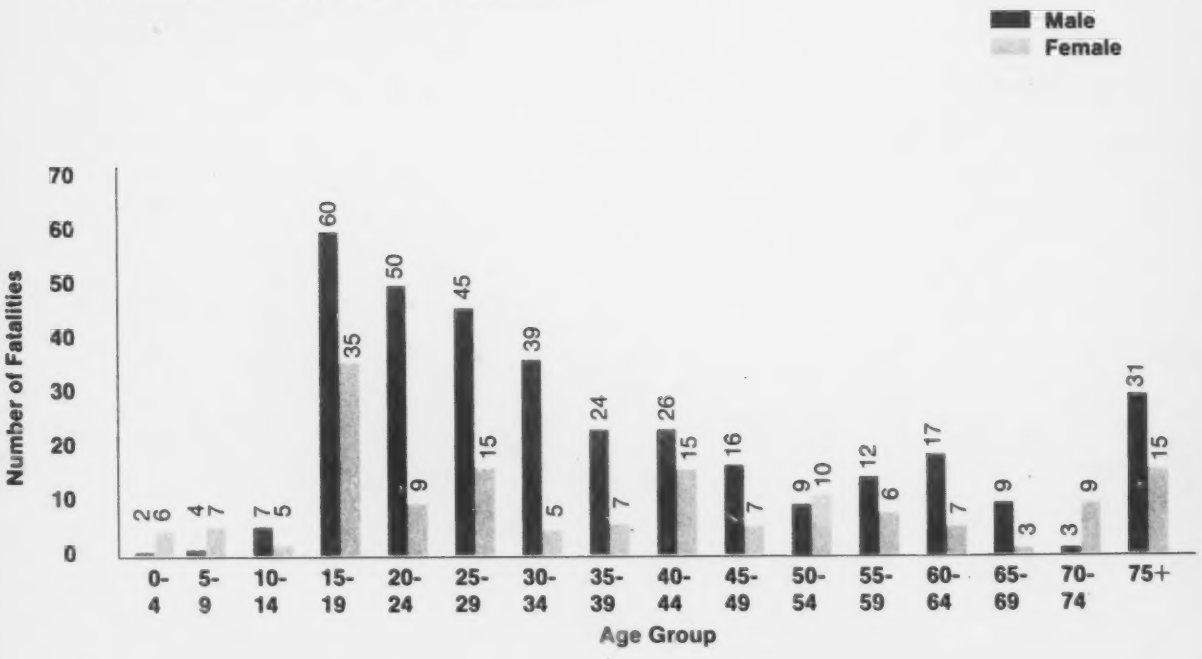


	Injured			
Age Group	Male	Female	Unknown	Total
0- 4	357	375	60	792
5- 9	570	492	50	1,112
10-14	735	667	68	1,470
15-19	3,211	3,187	138	6,536
20-24	2,469	1,851	64	4,384
25-29	1,655	1,381	60	3,096
30-34	1,302	1,129	42	2,473
35-39	935	987	34	1,956
40-44	716	835	32	1,583
45-49	456	536	12	1,004
50-54	400	490	12	902
55-59	384	403	8	795
60-64	336	381	15	732
65-69	286	387	6	679
70-74	236	280	10	526
75+	376	474	41	891
Not Stated	207	288	170	665
Grand Total	14,631	14,143	822	29,596

Who Was Involved/1989

Fatalities

People Injured By Age Group and Sex



	Fatalities		
Age Group	Male	Female	Total
0- 4	2	6	8
5- 9	4	7	11
10-14	7	5	12
15-19	60	35	95
20-24	50	9	59
25-29	45	15	60
30-34	39	5	44
35-39	24	7	31
40-44	26	15	41
45-49	16	7	23
50-54	9	10	19
55-59	12	6	18
60-64	17	7	24
65-69	9	3	12
70-74	3	9	12
75+	31	15	46
Subtotal	--	--	--
Age Unknown	--	--	--
Grand Total	354	161	515

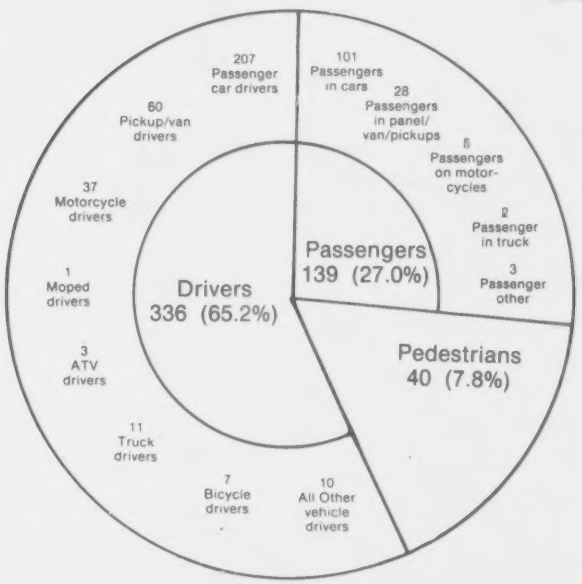
Who Was Involved/1989

Vehicle Type

People Killed and Injured in Various Vehicle Types

Vehicle Type	Fatalities	Severe Injuries	Minor Injuries	Total
Automobile	308	2,223	19,301	21,832
Automobile/pickup with trailer or camper	4	20	88	112
Bus	0	3	26	29
School bus	0	2	52	54
Bicycle	7	84	553	644
Moped	1	42	194	237
Motorcycle	42	349	1,023	1,414
Farm vehicle	8	14	36	58
Motor home	0	2	14	16
Panel/van/pickup	88	491	3,321	3,900
Straight truck	3	21	168	192
Tow/maintenance/ construction vehicle	1	7	31	39
Truck tractor	0	0	15	15
Truck tractor with trailer	9	42	227	278
Other/unknown	4	44	378	426
Total	475	3,344	25,427	29,246

Drivers, Passengers and Pedestrians Killed in 1989



Who Was Involved/1989

Pedestrians

Alcohol-Related Pedestrian Accidents:

	Fatal Acc.		Injury Acc.	
	No.	%	No.	%
Pedestrian (only) drinking	11	27.5	32	4.1
Driver (only) drinking	0	0.0	28	3.5
Pedestrian and driver drinking	1	2.5	9	1.1
No alcohol involvement	25	62.5	692	87.7
Unknown	3	7.5	28	8.3
Total	40		789	

Fatalities:

Age	Killed	%	Injured	%
0-4	3	7.5	76	9.3
5-9	1	2.5	185	22.6
10-14	1	2.5	116	14.2
15-19	2	5.0	83	10.1
20-24	3	7.5	52	6.3
25-44	12	30.0	162	19.8
45-64	8	20.0	70	8.5
65+	10	25.0	75	9.2
Total (Age Known)	40		819	
Age Not Stated	0		24	
Total	40		843	

Of all pedestrian fatalities, 35.0% were persons under 10 or over 64 years of age.

All Pedestrian Accidents:

Pedestrian Action	Killed	Injured
Crossing against signal	0	39
Crossing, not at crosswalk	11	159
Walking, improper position on roadway	4	15
Soliciting rides on road	0	1
Walking with traffic	0	13
Walking against traffic	1	4
Crossing with signal or in crosswalk	2	123
Ran onto roadway or into road from between parked cars	3	171
Directing traffic	0	2
Playing	0	11
Lying or sitting on roadway	2	1
Pushing, working on vehicle	1	13
Getting on or off vehicle	1	15
Maintenance/construction project	1	3
Walking, off roadway	0	18
Unknown	14	255
Total	40	843

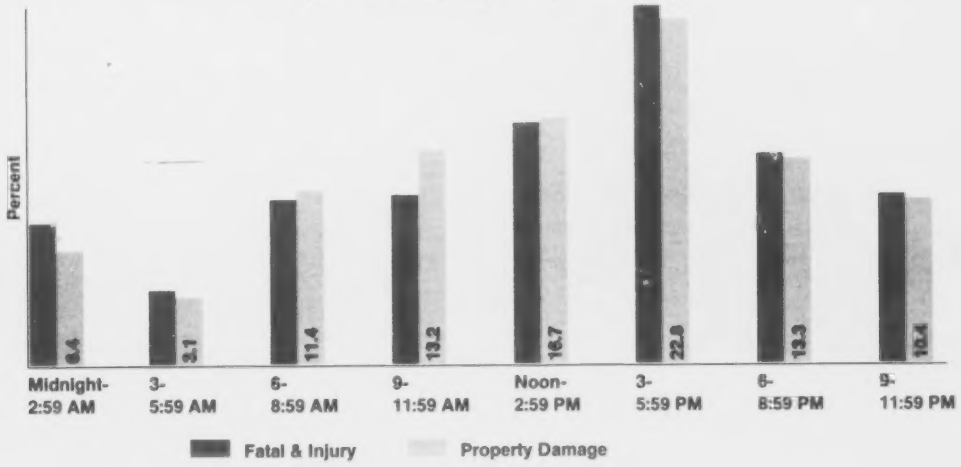
Note: Total percent may not equal 100 due to rounding.

Driver Action/ Contributing Circum.*	Fatal Acc.	Injury Acc.
Ran traffic control	2	19
Improper passing	0	2
Left of center, not passing	0	4
Failure to yield	6	101
Speeding	0	15
Improper turn	0	3
Improper lane change	0	0
Following too close	0	0
Disregarded warning signal	0	0
Reckless driving	0	11
Improper backing	0	8
Failure to control	2	35
Headlights not on	0	2
Driver physical condition	0	0
Driver drinking	0	0
Inattentive/distracted	3	57
Confused/inexperienced	1	19
Vision obscured	2	102
Vehicle defect	0	0
Vehicle overloaded/oversized	0	1
Other	2	62

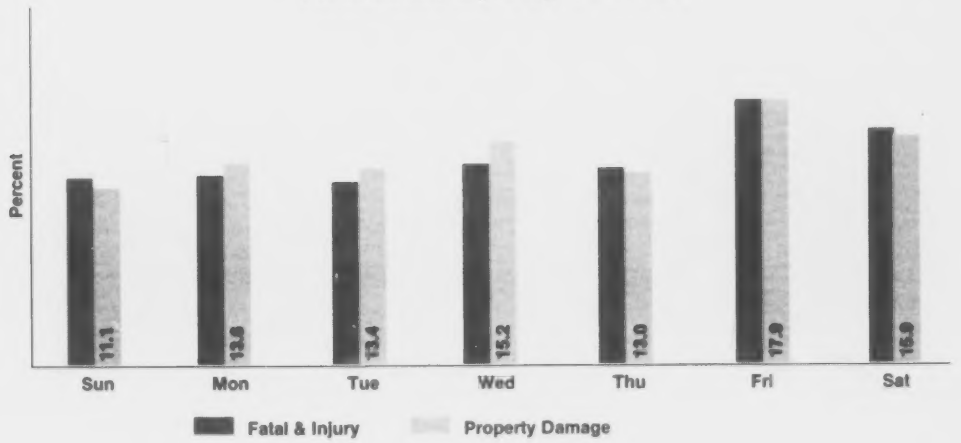
*0-2 actions/circumstances were listed for each driver.

When Crashes Happened/1989

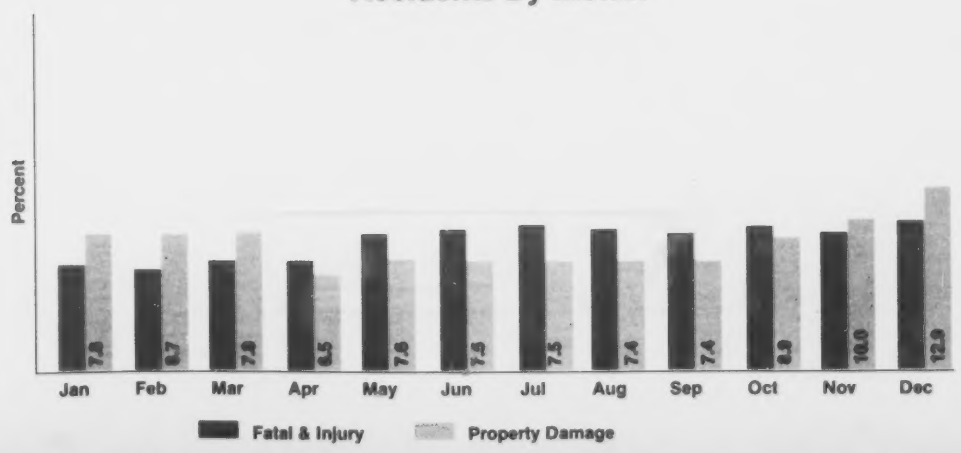
Accidents By Time of Day



Accidents By Day of Week



Accidents By Month



When Crashes Happened/1989

1989 Crashes By Time of Day and Day of Week

Hour Beginning	Total Crashes	Fatal Crashes	Monday All	Monday Fatal	Tuesday All	Tuesday Fatal	Wednesday All	Wednesday Fatal	Thursday All	Thursday Fatal	Friday All	Friday Fatal	Saturday All	Saturday Fatal	Sunday All	Sunday Fatal
Midnight-2:59 AM	5,051	73	342	8	402	5	390	4	453	7	598	8	1,476	22	1,390	19
3:00 AM-5:59 AM	2,330	31	251	1	251	2	251	6	229	2	334	3	479	8	535	9
6:00 AM-8:59 AM	7,834	37	1,317	7	1,465	9	1,505	8	1,229	1	1,239	5	652	6	427	1
9:00 AM-11:59 AM	9,065	51	1,274	10	1,220	3	1,401	12	1,179	5	1,474	6	1,683	11	834	4
Noon-2:59 PM	11,666	45	1,653	4	1,488	4	1,796	3	1,494	7	2,066	11	1,885	5	1,284	11
3:00 PM-5:59 PM	16,340	81	2,514	12	2,380	10	2,584	8	2,366	14	3,105	13	1,889	10	1,502	14
6:00 PM-8:59 PM	9,421	63	1,187	10	1,143	8	1,347	4	1,209	5	1,810	15	1,489	16	1,236	5
9:00 PM-11:59 PM	7,433	63	787	4	778	8	881	2	877	10	1,797	16	1,534	16	779	7
Unknown	1,576	8	187	2	220	2	238	0	176	1	260	1	279	2	216	0
Total	70,716	452	9,512	58	9,347	51	10,393	47	9,212	52	12,683	78	11,366	96	8,203	70

1989 Crashes By Month

	Fatal Crashes	Injury Crashes	Property Damage Crashes	Total Crashes
January	28	1,430	3,856	5,314
February	17	1,271	4,302	5,590
March	33	1,442	3,877	5,352
April	36	1,478	3,208	4,722
May	46	1,811	3,791	5,648
June	37	1,923	3,748	5,708
July	50	1,918	3,701	5,669
August	44	1,887	3,681	5,612
September	47	1,814	3,677	5,538
October	41	1,931	4,436	6,408
November	30	1,710	4,980	6,720
December	43	1,997	6,395	8,435
Total	452	20,612	49,652	70,716

When Fatalities Happened/1989

Number of Statewide Fatalities by Date and Month

Date	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total
1	1*	0	1	2	0	0	3*	3	3	0	0	0	13
2	0*	0	0	3	2	3	5*	0	2*	4	1	1	21
3	1	0	1	6	1	2	1*	2	3*	1	1	1	20
4	0	1	0	0	1	0	[illegible]	1	3*	3	2	1	17
5	2	0	0	0	1	1	0	5	3	1	0	3	16
6	2	1	0	4	2	1	1	1	0	3	1	1	17
7	1	1	1	0	2	0	2	2	1	1	0	0	11
8	0	1	2	0	1	0	2	0	2	0	2	1	11
9	0	0	2	2	0	0	2	0	0	2	0	1	9
10	0	2	2	0	0	3	0	3	2	1	5	8	26
11	1	1	4	2	1	1	3	1	0	0	2	1	17
12	0	2	1	0	3	1	1	0	0	3	2	0	13
13	2	0	2	2	6	4	3	4	0	3	0	1	27
14	1	0	0	1	0	1	1	1	1	1	0	0	7
15	0	0	2	2	2	1	2	1	0	3	0	2	15
16	1	0	1	0	0	1	4	1	2	1	0	3	14
17	1	0	5	1	3	2	0	1	1	0	0	2	16
18	1	5	1	2	1	3	2	2	2	2	3	4	28
19	1	0	0	2	0	1	0	4	5	0	1	0	14
20	1	1	0	3	1	4	2	4	1	2	1	0	20
21	2	0	2	3	4	2	1	0	0	2	1	1	18
22	0	2	0	1	2	2	1	1	1	1	3	4	18
23	1	0	2	1	2	4	4	1	4	0	0*	1	20
24	2	1	1	2	3	4	0	5	4	1	2*	1*	26
25	2	0	2	0	0	0	1	3	0	2	2*	2	14
26	0	1	1	0	2	1	7	2	1	2	1*	0	18
27	1	0	0	0	3*	1	1	0	1	1	1	1	10
28	5	0	3	1	2*	0	1	1	2	0	0	1	16
29	0		1	1	5*	0	3	1	0	3	1	3	18
30	3		0	0	0	2	0	0	7	2	0	2	16
31	0		2		0		1	4		1		1	9
Total	32	19	39	41	50	45	59	54	51	46	32	47	515

** Indicates a holiday.*

By Month and Day of Week

	Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Total
January	1	5	4	4	3	6	9	32
February	3	2	1	3	0	3	7	19
March	3	2	6	6	4	11	7	39
April	6	9	4	2	9	5	6	41
May	8	10	4	7	3	6	12	50
June	4	4	6	2	7	12	10	45
July	15	2	10	8	8	5	11	59
August	9	4	6	2	15	7	11	54
September	10	5	9	3	4	5	15	51
October	7	9	4	7	6	9	4	46
November	5	3	1	5	1	8	9	32
December	12	8	3	3	2	10	9	47
Totals	83	63	58	52	62	87	110	515

When Holiday Fatalities Happened/1989

Holiday Traffic Fatalities
Iowa, 1962-89

In 1989, for the holidays described in the table below, the average number of deaths per day was 2.2. The average number of deaths per day for all weekends in 1989 was 1.9.

Note: Holiday periods include the number of full days shown in parentheses. Fatalities occurring from 6 p.m. to midnight on the previous day are also included. Regular weekend periods are from 6 p.m. Friday to midnight Sunday.

Beginning with 1981, the number of days included in a holiday period has been standardized as follows:

- 1 day if holiday falls on Wednesday
- 3 days if holiday falls on Friday through Monday
- 4 days if holiday falls on Tuesday or Thursday

Year	New Year's Day	Memorial Day	Fourth of July	Labor Day	Thanksgiving Day	Christmas Day
1962	3 (4)	2 (2)	-- (1)	5 (3)	No Record	11 (4)
1963	4 (1)	6 (4)	18 (4)	8 (3)	No Record	7 (1)
1964	3 (3)	4 (3)	7 (3)	15 (3)	No Record	13 (3)
1965	7 (3)	6 (3)	9 (3)	11 (3)	No Record	13 (3)
1966	6 (3)	11 (3)	7 (3)	27 (3)	No Record	6 (3)
1967	4 (3)	7 (4)	13 (4)	9 (3)	No Record	8 (3)
1968	1 (1)	11 (4)	16 (4)	18 (3)	10 (4)	5 (1)
1969	12 (4)	7 (3)	10 (3)	11 (3)	13 (4)	7 (4)
1970	8 (3)	8 (3)	10 (3)	13 (3)	12 (4)	7 (3)
1971	4 (3)	5 (3)	12 (3)	15 (3)	12 (4)	9 (3)
1972	5 (3)	9 (3)	3 (1)	6 (3)	14 (4)	12 (3)
1973	6 (4)	7 (3)	5 (1)	11 (3)	14 (4)	9 (4)
1974	6 (1)	4 (3)	8 (4)	16 (3)	13 (4)	4 (1)
1975	5 (4)	6 (3)	7 (3)	8 (3)	3 (4)	5 (4)
1976	9 (3)	6 (3)	16 (3)	10 (3)	9 (4)	5 (3)
1977	1 (3)	11 (3)	16 (3)	6 (3)	7 (4)	5 (3)
1978[1]	1/0 (3)	13/6 (3)	8/5 (4)	5/1 (3)	12/5 (4)	3/2 (4)
1979	3/3 (3)	9/5 (3)	8/4 (1)	11/8 (3)	10/6 (4)	11/6 (4)
1980	13/7 (4)	5/2 (3)	9/7 (3)	11/6 (3)	13/9 (4)	1/1 (4)
1981	8/4 (4)	8/3 (3)	6/2 (3)	7/4 (3)	7/2 (4)	6/1 (3)
1982	4/3 (3)	3/2 (3)	5/3 (3)	9/6 (3)	8/3 (4)	10/2 (3)
1983	17/11 (3)	10/9 (3)	9/8 (3)	6/2 (3)	3/1 (4)	2/0 (3)
1984	3/3 (3)	4/0 (3)	3/2 (1)	7/7 (3)	4/0 (4)	6/2 (4)
1985	4/2 (4)	5/2 (3)	7/6 (4)	13/12 (3)	11/1 (4)	0/0 (1)
1986[2]	0/0 (1)	7/7 (3)	3/2 (3)	8/5 (3)	4/3 (4)	8/5 (4)
1987	3/2 (4)	9/6 (3)	10/5 (3)	4/4 (3)	8/1 (4)	4/1 (3)
1988[3]	4/4 (3)	6/4 (3)	11/6 (3)	5/3 (3)	5/1 (4)	14/6 (3)
1989	2/1 (3)	12/5 (3)	14/5 (4)	8/1 (3)	5/4 (4)	6/2 (3)

[1] Beginning with 1978, the number of alcohol-related traffic fatalities for a given holiday is included, in addition to the total number of holiday fatalities. The number of all fatalities is left of the slash mark; the number of alcohol-related fatalities is on the right. As for previous years, the number of days included in the holiday is in parentheses.

[2] Memorial Day holiday fatality figures for 1986 have been revised.

[3] Thanksgiving holiday fatality figures for 1988 have been revised.

Where Fatalities Happened/1989

Counties

Fatalities by County
1987-1989

Numbers represent fatalities, in order, for each year from 1987 through 1989.

Where Crashes Happene[illegible]/1989

Counties

County	Registrations[1]	Licensed Drivers	All Acc.	Acc. Rate[2]	Acc. Rate[3]	Fatal Acc.	Persons Killed	Injury Acc.	Persons Injured
Adair	9,316	6,240	203	111.9	233.3	1	1	75	126
Adams	5,785	3,736	117	249.6	220.8	1	1	25	30
Allamakee	14,129	10,106	304	323.6	205.4	5	5	87	116
Appanoose	14,282	10,058	351	378.5	242.1	3	6	105	142
Audubon	7,836	5,580	138	254.7	168.3	1	1	44	72
Benton	23,316	16,002	392	186.5	172.7	7	7	130	183
Black Hawk	111,594	85,787	2,855	347.6	208.1	9	10	990	1,405
Boone	25,714	17,465	506	251.2	196.1	3	4	151	227
Bremer	22,667	16,758	420	236.3	168.0	4	4	135	189
Buchanan	20,043	14,394	374	202.2	157.8	3	3	102	156
Buena Vista	19,508	14,561	466	317.4	218.8	0	0	111	150
Butler	17,244	12,092	228	177.3	132.6	1	1	64	98
Calhoun	12,475	8,747	184	186.2	142.6	3	5	54	86
Carroll	20,960	15,638	499	327.9	216.0	2	2	137	207
Cass	16,655	11,486	393	173.0	228.5	2	2	101	148
Cedar	18,462	12,251	406	130.8	224.3	3	3	110	177
Cerro Gordo	45,069	33,504	1,230	308.6	256.8	7	10	360	487
Cherokee	15,207	10,639	327	322.9	209.6	6	7	77	113
Chickasaw	14,268	10,123	249	218.1	167.1	2	2	67	104
Clarke	8,647	6,056	271	228.6	288.3	3	3	89	158
Clay	18,048	12,959	525	369.2	286.9	3	5	147	197
Clayton	19,263	14,048	418	271.4	200.0	5	9	107	162
Clinton	47,220	36,634	1,512	465.8	266.2	5	7	351	529
Crawford	17,840	12,582	480	339.8	238.8	3	4	122	177
Dallas	30,860	21,097	575	160.2	199.0	3	3	178	261
Davis	8,646	5,777	189	260.5	193.9	2	4	57	100
Decatur	8,308	5,755	209	168.2	237.5	0	0	54	86
Delaware	17,711	12,802	313	199.8	162.2	1	1	80	112
Des Moines	42,225	30,829	1,051	409.0	238.9	6	7	272	414
Dickinson	15,487	11,205	440	341.5	280.3	4	4	126	201
Dubuque	72,752	60,470	2,620	524.2	288.9	11	12	714	985
Emmet	12,102	8,592	287	379.3	215.8	3	3	73	107
Fayette	22,205	16,088	412	256.8	170.2	2	2	96	136

[1] County and total motor vehicle registration figures exclude trailers, travel trailers, mobile homes, official vehicles, miscellaneous vehicles, trucks licensed to operate in more than one state, vehicles with dealer titles, and vehicles registered to non-Iowa residents not registered to a specific county.

[2] Per 100 million vehicle miles traveled.

[3] Per 10,000 population - projections estimated from 1987-88 Statistical Profile of Iowa, Department of Economic Development.

Where Crashes Happened/1989

Counties

County	Registrations[1]	Licensed Drivers	All Acc.	Acc. Rate[2]	Acc. Rate[3]	Fatal Acc.	Persons Killed	Injury Acc.	Persons Injured
Floyd	18,092	12,823	375	293.8	201.6	4	4	95	135
Franklin	12,537	8,433	262	139.6	216.5	5	6	56	88
Fremont	9,338	5,980	214	145.3	235.2	4	4	69	98
Greene	11,706	7,825	200	215.1	172.4	3	3	68	99
Grundy	13,353	9,286	190	149.6	140.7	0	0	59	85
Guthrie	11,895	7,972	191	234.5	172.1	1	1	46	62
Hamilton	17,716	12,090	453	183.7	260.3	5	5	134	190
Hancock	13,586	9,484	166	165.6	122.1	2	2	50	71
Hardin	20,249	14,486	352	254.2	166.0	3	3	105	136
Harrison	16,351	11,028	374	185.1	233.8	6	7	122	180
Henry	18,478	13,462	439	300.9	243.9	4	6	133	200
Howard	10,403	7,250	156	202.2	144.4	1	1	48	75
Humboldt	12,206	8,386	200	226.7	169.5	3	5	60	88
Ida	9,282	6,330	156	238.8	183.5	2	3	41	56
Iowa	15,943	10,649	335	115.9	221.9	2	2	104	158
Jackson	19,851	14,371	365	259.7	163.7	2	2	124	197
Jasper	36,685	25,257	725	157.5	203.7	11	15	242	356
Jefferson	16,415	12,000	414	397.8	252.4	1	1	112	166
Johnson	70,519	60,757	2,447	325.1	278.4	10	11	647	893
Jones	19,016	13,245	371	255.7	183.7	4	4	101	135
Keokuk	12,938	8,691	165	155.1	135.2	1	1	49	84
Kossuth	20,569	14,389	280	183.7	130.8	8	11	69	99
Lee	38,308	27,249	1,021	388.0	239.7	6	6	289	407
Linn	159,236	122,593	4,148	357.7	249.7	22	24	1,109	1,490
Louisa	12,410	7,564	248	299.8	196.8	3	3	84	121
Lucas	9,615	6,804	199	251.9	187.7	1	1	58	94
Lyon	12,412	8,633	175	198.9	138.9	3	3	47	74
Madison	13,267	8,910	249	288.3	197.6	3	3	89	124
Mahaska	21,844	15,055	580	353.8	261.3	2	2	171	234
Marion	28,952	20,479	684	350.1	218.5	4	4	223	308
Marshall	38,915	28,135	1,097	411.2	253.3	6	9	332	459
Mills	13,491	9,020	376	227.2	257.5	3	4	104	156
Mitchell	11,711	8,279	166	204.8	143.1	3	4	52	72

[1] County and total motor vehicle registration figures exclude trailers, travel trailers, mobile homes, official vehicles, miscellaneous vehicles, trucks licensed to operate in more than one state, vehicles with dealer titles, and vehicles registered to non-Iowa residents not registered to a specific county.

[2] Per 100 million vehicle miles traveled.

[3] Per 10,000 Population - projections estimated from 1987-88 Statistical Profile of Iowa, Department of Economic Development.

Where Crashes Happened/1989

Counties

County	Registrations[1]	Licensed Drivers	All Acc.	Acc. Rate[2]	Acc. Rate[3]	Fatal Acc.	Persons Killed	Injury Acc.	Persons Injured
Monona	11,432	7,587	261	168.5	235.1	4	4	77	124
Monroe	8,485	5,597	187	255.7	207.8	2	3	32	51
Montgomery	13,021	8,931	358	410.6	286.4	3	3	84	125
Muscatine	39,754	28,835	824	303.6	177.6	18	21	323	464
O'Brien	16,003	11,415	271	252.7	159.4	3	3	71	100
Osceola	8,081	5,481	147	235.7	186.1	0	0	36	55
Page	17,065	12,302	370	341.6	197.9	1	1	95	126
Palo Alto	10,873	7,918	210	254.4	172.1	2	2	63	87
Plymouth	22,756	16,647	493	252.0	206.3	4	4	159	256
Pocahontas	10,721	7,414	146	166.5	136.4	3	3	53	90
Polk	298,441	227,705	12,479	507.0	394.8	43	45	3,485	5,001
Pottawattamie	87,061	59,837	2,822	323.5	313.2	15	15	935	1,304
Poweshiek	19,277	13,411	424	147.3	233.0	7	7	112	169
Ringgold	6,065	4,088	123	257.2	212.1	0	0	30	51
Sac	13,157	9,168	233	206.4	175.2	2	2	66	93
Scott	135,685	107,128	4,490	392.7	269.5	12	16	1,468	2,063
Shelby	14,514	10,172	203	213.0	141.0	3	3	55	78
Sioux	27,031	20,284	456	238.6	147.1	4	5	160	235
Story	56,338	47,672	1,641	326.0	223.9	4	4	386	546
Tama	19,095	12,791	318	209.0	167.4	6	8	93	141
Taylor	7,998	5,315	120	263.1	146.3	1	1	22	31
Union	13,487	9,323	312	342.9	221.3	1	1	74	111
Van Buren	8,390	5,499	184	307.0	219.0	2	2	46	86
Wapello	35,368	25,396	825	374.8	216.5	10	10	306	469
Warren	35,320	25,300	658	201.1	182.3	6	8	201	305
Washington	19,911	13,852	396	236.9	196.0	4	5	111	158
Wayne	7,617	5,163	134	227.3	169.6	2	2	29	37
Webster	39,185	29,002	1,200	429.9	274.6	10	10	299	426
Winnebago	13,510	8,938	201	281.8	170.3	3	3	54	72
Winneshiek	19,317	14,060	554	368.9	251.8	6	6	136	201
Woodbury	88,216	66,710	2,578	411.8	251.8	14	14	964	1,359
Worth	9,119	6,001	133	106.3	156.5	4	5	41	77
Wright	15,450	10,799	248	202.4	157.0	1	1	63	81
Total	2,690,876	1,976,726	70,716	314.2	243.1	452	515	20,612	29,597

[1] County and total motor vehicle registration figures exclude trailers, travel trailers, mobile homes, official vehicles, miscellaneous vehicles, trucks licensed to operate in more than one state, vehicles with dealer titles, and vehicles registered to non-Iowa residents not registered to a specific county.

[2] Per 100 million vehicle miles traveled.

[3] Per 10,000 Population - projections estimated from 1987-88 Statistical Profile of Iowa, Department of Economic Development.

Where Crashes Happened/1989

Counties: Accidents by Road System

	Interstate/ Freeway			U.S. or State Highway			County Road			City Street			Other/Unknown		
	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.
Adair	1	17	36	0	12	28	0	38	41	0	8	20	0	0	2
Adams	0	0	0	0	8	33	1	9	37	0	7	21	0	1	0
Allamakee	0	0	0	3	40	106	1	37	68	1	10	36	0	0	2
Appanoose	0	0	0	2	41	102	1	27	59	0	35	79	0	2	3
Audubon	0	0	0	0	13	28	1	24	29	0	7	35	0	0	1
Benton	0	2	16	3	48	90	4	62	84	0	17	63	0	1	2
Black Hawk	0	13	25	1	349	591	3	56	74	5	570	1,159	0	2	7
Boone	0	0	0	0	25	67	2	42	74	1	82	206	0	2	5
Bremer	0	0	0	2	76	137	2	39	54	0	20	89	0	0	1
Buchanan	0	2	5	1	41	106	2	31	70	0	28	88	0	0	0
Buena Vista	0	0	0	0	49	163	0	33	54	0	29	136	0	0	2
Butler	0	0	0	0	28	72	1	27	41	0	9	49	0	0	1
Calhoun	0	0	0	1	15	34	2	24	35	0	15	58	0	0	0
Carroll	0	0	0	1	57	127	1	41	60	0	39	166	0	0	7
Cass	1	15	40	1	34	124	0	31	39	0	21	82	0	0	5
Cedar	0	23	71	1	30	54	2	41	94	0	15	71	0	1	3
Cerro Gordo	0	8	41	5	151	390	1	55	72	1	139	354	0	7	6
Cherokee	0	0	0	2	34	106	4	28	60	0	15	74	0	0	4
Chickasaw	0	0	0	2	31	77	0	24	46	0	12	56	0	0	1
Clarke	1	18	24	2	44	82	0	13	21	0	14	49	0	0	3
Clay	0	0	0	2	60	143	1	30	62	0	57	167	0	0	3
Clayton	0	0	0	4	43	138	1	50	110	0	14	56	0	0	2
Clinton	0	0	0	3	135	427	1	54	90	0	160	613	1	2	26
Crawford	0	0	0	3	47	129	0	40	66	0	35	156	0	0	4
Dallas	0	20	76	2	75	137	1	44	83	0	38	91	0	1	7
Davis	0	0	0	1	30	55	1	20	50	0	7	23	0	0	2
Decatur	0	10	35	0	14	45	0	23	41	0	7	31	0	0	3
Delaware	0	0	0	1	31	83	0	33	90	0	14	59	0	2	0
Des Moines	0	0	0	2	117	228	4	33	99	0	119	437	0	3	9
Dickinson	0	0	0	3	82	173	1	22	73	0	20	62	0	2	2
Dubuque	0	0	0	6	282	705	4	97	157	1	333	1,029	0	2	4
Emmet	0	0	0	2	34	92	0	19	44	1	20	73	0	0	2
Fayette	0	0	0	1	28	113	0	48	101	1	20	94	0	0	6
Floyd	0	0	0	2	32	103	2	28	40	0	35	131	0	0	2
Franklin	1	2	25	2	19	73	2	19	56	0	16	46	0	0	1
Fremont	2	11	18	1	19	53	1	33	55	0	6	14	0	0	1
Greene	0	0	0	1	22	42	1	23	34	1	23	51	0	0	2
Grundy	0	0	0	0	24	44	0	27	49	0	8	38	0	0	0
Guthrie	0	0	0	0	16	63	1	27	52	0	3	27	0	0	2
Hamilton	0	13	29	2	36	58	3	34	56	0	46	163	0	5	8
Hancock	0	0	0	1	18	27	1	16	38	0	13	49	0	3	0
Hardin	0	0	0	2	42	111	0	37	58	1	26	72	0	0	3
Harrison	1	16	30	4	47	97	1	40	52	0	19	62	0	0	5
Henry	0	0	0	2	53	134	2	50	79	0	29	87	0	1	2
Howard	0	0	0	0	10	51	1	29	31	0	9	25	0	0	0
Humboldt	0	0	0	1	20	60	1	22	34	1	18	41	0	0	2
Ida	0	0	0	2	12	42	0	20	23	0	9	47	0	0	1
Iowa	1	19	33	0	38	77	1	36	73	0	11	42	0	0	4
Jackson	0	0	0	1	63	100	1	36	57	0	24	80	0	1	2
Jasper	2	35	79	6	80	143	3	53	84	0	73	160	0	1	6

Where Crashes Happened/1989

Counties: Accidents by Road System

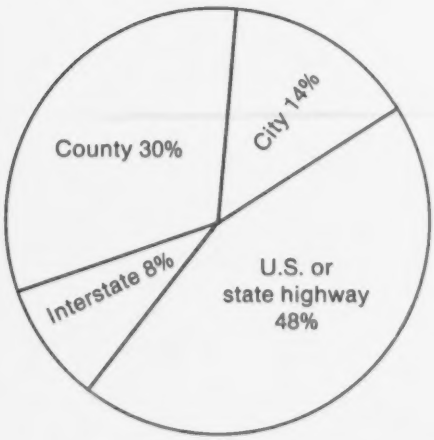
	Interstate/ Freeway			U.S. or State Highway			County Road			City Street			Other/Unknown		
	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.	Fat. Acc.	Inj. Acc.	P.D. Acc.
Jefferson	0	0	0	1	55	134	0	34	72	0	22	91	0	1	4
Johnson	1	56	159	5	269	561	4	96	176	0	222	878	0	4	16
Jones	0	0	0	1	37	108	3	37	86	0	26	69	0	1	3
Keokuk	0	0	0	0	22	64	1	21	30	0	6	19	0	0	2
Kossuth	0	0	0	4	19	75	4	32	59	0	18	68	0	0	1
Lee	0	0	0	3	152	354	1	45	98	2	87	260	0	5	14
Linn	3	52	181	9	317	796	4	115	164	6	621	1,850	0	4	26
Louisa	0	0	0	1	36	89	2	37	48	0	11	23	0	0	1
Lucas	0	0	0	0	26	53	1	14	29	0	18	57	0	0	1
Lyon	0	0	0	1	21	43	2	23	48	0	3	33	0	0	1
Madison	0	1	3	2	16	21	1	51	60	0	21	72	0	0	1
Mahaska	0	0	0	1	77	204	0	37	62	1	56	137	0	1	4
Marion	0	0	0	2	100	215	0	62	90	2	60	148	0	1	4
Marshall	0	0	0	2	111	302	3	78	102	1	141	346	0	2	9
Mills	0	14	35	2	47	104	1	31	62	0	11	65	0	1	3
Mitchell	0	0	0	1	20	37	2	22	35	0	10	36	0	0	3
Monona	1	7	23	2	18	46	1	39	66	0	13	44	0	0	1
Monroe	0	0	0	1	21	81	1	11	39	0	0	32	0	0	1
Montgomery	0	0	0	3	31	96	0	26	54	0	26	117	0	1	4
Muscatine	0	0	0	11	151	201	3	52	65	4	118	212	0	2	5
O'Brien	0	0	0	0	28	70	2	15	32	1	28	92	0	0	3
Osceola	0	0	0	0	12	37	0	16	39	0	8	35	0	0	0
Page	0	0	0	1	17	83	0	32	42	0	46	147	0	0	2
Palo Alto	0	0	0	0	23	62	0	24	44	2	16	37	0	0	2
Plymouth	0	0	0	2	64	127	2	51	89	0	43	110	0	1	4
Pocahontas	0	0	0	2	15	24	1	25	34	0	13	30	0	0	2
Polk	11	314	728	18	1,037	2,194	3	156	208	11	1,961	5,757	0	17	64
Pottawattamie	4	146	313	5	313	546	3	74	113	3	398	888	0	4	12
Poweshiek	1	28	52	5	50	105	1	23	48	0	11	95	0	0	5
Ringgold	0	0	0	0	13	36	0	12	42	0	5	15	0	0	0
Sac	0	0	0	1	26	52	1	25	53	0	15	57	0	0	3
Scott	2	82	187	6	497	941	0	63	102	4	821	1,741	0	5	39
Shelby	0	0	0	2	10	58	1	22	37	0	23	49	0	0	1
Sioux	0	0	0	2	74	116	2	57	66	0	29	108	0	0	2
Story	1	36	92	2	91	294	0	54	109	1	205	748	0	0	8
Tama	0	0	0	4	28	107	2	48	64	0	15	46	0	2	2
Taylor	0	0	0	1	8	35	0	10	35	0	4	27	0	0	0
Union	0	0	0	0	27	83	0	20	37	1	26	114	0	1	3
Van Buren	0	0	0	0	8	42	2	24	69	0	11	23	0	3	2
Wapello	0	0	0	8	94	155	2	63	884	0	143	265	0	6	5
Warren	1	21	50	2	77	206	3	73	100	0	30	94	0	0	1
Washington	0	0	0	3	51	166	1	41	65	0	19	49	0	0	1
Wayne	0	0	0	2	9	57	0	13	22	0	7	23	0	0	1
Webster	0	0	0	2	101	280	7	64	119	1	130	483	0	4	9
Winnebago	0	0	0	0	15	49	2	17	29	1	22	66	0	0	0
Winneshiek	0	0	0	3	37	125	3	64	166	0	34	117	0	1	4
Woodbury	1	64	92	5	176	305	1	52	67	7	662	1,122	0	10	14
Worth	1	6	14	2	16	31	1	18	26	0	1	13	0	0	4
Wright	0	2	5	1	16	55	0	22	41	0	21	80	0	2	3
Total	37	1,053	2,517	215	7,134	16,288	137	3,766	6,476	62	8,541	23,905	1	118	466

Where Crashes Happened/1989

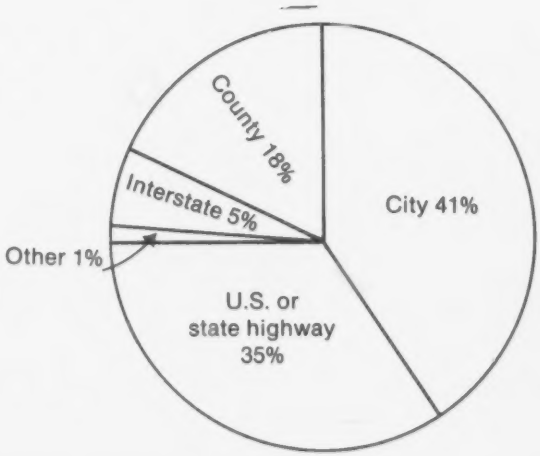
By Road System

	Fatal	Injury	Property Damage	Total
Interstate	37	1,053	2,517	3,607
U.S. or state highway	215	7,134	16,288	23,637
County	137	3,766	6,476	10,379
City	62	8,541	23,905	32,508
Other	1	118	466	585
Total	452	20,612	49,652	70,716

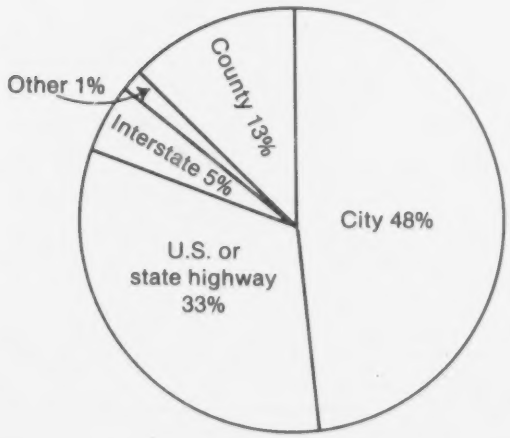
Fatal Accidents



Injury Accidents



Property Damage Accidents



Where Crashes Happened/1989

Cities

City	Population[1]	Number of Accidents 1988	Number of Accidents 1989	Persons Killed 1988	Persons Killed 1989	Persons Injured 1988	Persons Injured 1989	Acc. Rate** 1988	Acc. Rate** 1989
1. Des Moines	191,003	8,492	8,872	29	21	3,159	3,268	444.6	464.5
2. Cedar Rapids	110,243	2,850	3,070	7	10	843	1,004	258.5	278.5
3. Davenport	103,264	2,908	3,306	7	10	1,223	1,509	281.6	320.2
4. Sioux City	82,003	2,292	2,237	10	11	1,096	1,194	279.5	272.8
5. Waterloo	75,985	1,512	1,677	5	3	691	896	199.0	220.7
6. Dubuque	62,321	1,905	1,980	5	1	644	703	305.7	317.7
7. Council Bluffs	56,449	2,057	2,147	13	6	895	973	364.4	380.3
8. Iowa City	50,508	1,270	1,414	2	1	312	388	251.4	280.0
9. Ames	45,775	1,062	1,120	1	1	289	336	232.0	244.7
10. Cedar Falls	36,322	790	778	1	0	273	299	217.5	214.2
11. Clinton	32,828	1,042	1,062	0	0	306	317	317.4	323.5
12. Mason City	30,144	764	804	1	2	305	291	253.5	266.7
13. Burlington	29,529	696	650	3	1	246	242	235.7	220.1
14. Fort Dodge	29,423	892	857	4	1	294	264	303.2	291.3
15. Bettendorf	27,381	541	637	0	1	223	277	197.6	232.6
16. Ottumwa	27,381	447	524	3	4	221	284	163.3	191.4
17. Marshalltown	26,938	705	743	1	1	269	277	261.7	275.8
18. Muscatine	23,467	508	505	2	6	253	277	216.5	215.2
19. West Des Moines	21,894	751	786	1	5	275	307	343.0	359.0
20. Marion	19,474	347	427	0	0	140	175	178.2	219.3
21. Urbandale	17,869	486	521	1	2	190	207	272.0	291.6
22. Ankeny	15,429	312	332	0	2	169	212	202.2	215.2
23. Newton	15,292	290	323	0	2	118	139	189.6	211.2
24. Keokuk	13,536	249	329	2	1	106	146	184.0	243.1
25. Fort Madison	13,520	349	344	0	2	134	121	258.1	254.4
26. Boone	12,602	244	276	0	1	93	113	193.6	219.0
27. Spencer	11,726	340	359	0	0	112	137	290.0	306.2
28. Oskaloosa	10,989	277	325	0	2	87	126	252.1	295.8
29. Indianola	10,843	185	196	0	0	62	53	170.6	180.8
30. Carroll	9,705	226	259	1	0	70	86	232.9	266.9
31. Fairfield	9,428	289	256	0	0	101	87	306.9	271.5
32. Grinnell	8,868	127	140	0	0	59	38	143.2	157.9
33. Storm Lake	8,814	231	260	0	0	83	62	262.1	295.0
34. Charles City	8,778	191	221	1	1	51	65	217.6	251.8

[1] List includes all Iowa cities with a population of 5,000 or more, based on 1980 census figures (including revisions made through January 1983). Figures provided by Office of the State Demographer, Department of Economic Development, Des Moines.

[2] Per 10,000 population

Where Crashes Happened/1989

Cities

City	Population[1]	Number of Accidents 1988	Number of Accidents 1989	Persons Killed 1988	Persons Killed 1989	Persons Injured 1988	Persons Injured 1989	Acc. Rate[2] 1988	Acc. Rate[2] 1989
35. Webster City	8,572	239	210	2	0	76	64	278.8	245.0
36. Waverly	8,444	168	186	0	1	58	73	199.0	220.3
37. Creston	8,429	211	205	0	1	57	51	250.3	243.2
38. Pella	8,349	159	194	0	2	44	69	190.4	232.4
39. Le Mars	8,276	171	189	0	0	79	106	206.6	228.4
40. Knoxville	8,143	139	132	0	0	53	70	170.7	162.1
41. Decorah	8,068	160	163	0	1	53	52	198.3	202.0
42. Atlantic	7,789	154	164	0	0	41	38	197.7	210.6
43. Coralville	7,687	276	317	1	3	97	148	359.0	412.4
44. Oelwein	7,564	137	104	2	0	50	27	181.1	137.5
45. Estherville	7,518	161	169	1	1	63	54	214.2	224.8
46. Clear Lake	7,458	140	146	0	0	57	69	187.7	195.8
47. Mount Pleasant	7,322	163	189	1	0	71	68	222.6	258.1
48. Perry	7,053	134	119	0	0	54	58	190.0	168.7
49. Cherokee	7,004	153	125	1	0	39	39	218.4	178.5
50. Red Oak	6,810	157	183	0	1	50	56	230.5	268.7
51. Denison	6,675	178	220	1	1	57	70	266.7	329.6
52. Washington	6,584	127	94	0	0	56	36	192.9	142.8
53. Centerville	6,558	145	150	0	0	47	61	221.1	228.7
54. Independence	6,392	120	112	0	0	36	39	187.7	175.2
55. Maquoketa	6,313	107	118	1	0	47	60	169.5	186.9
56. Algona	6,289	121	118	0	1	37	34	192.4	187.6
57. Shenandoah	6,274	97	110	0	0	20	17	154.6	175.3
58. Iowa Falls	6,174	131	107	1	0	48	37	212.2	173.3
59. Clive	6,064	271	289	1	0	108	152	446.9	476.6
60. Nevada	5,912	77	57	0	1	21	23	130.2	96.4
61. Altoona	5,764	77	95	0	0	37	32	133.6	164.8
62. Windsor Heights	5,474	182	178	1	0	65	68	234.8	325.2
63. Clarinda	5,458	87	103	1	0	28	33	159.4	188.7
64. Harlan	5,357	73	77	0	0	38	23	136.3	143.7
65. Glenwood	5,280	95	95	0	0	31	28	179.9	179.9
66. Vinton	5,040	50	70	1	0	10	24	99.2	138.9
67. Sheldon	5,003	158	143	0	0	63	47	315.8	285.8
68. Chariton	5,116	109	89	0	0	45	32	213.1	174.0

[1] List includes all Iowa cities with a population of 5,000 or more, based on 1980 census figures (including revisions made through January 1983). Figures provided by Office of the State Demographer, Department of Economic Development, Des Moines.

[2] Per 10,000 population.

Alcohol-Related/1989

Drinking/Driving

Age of Drinking Drivers Involved in Accidents

During 1989, 41.6 percent of the fatal accidents and 41.2 percent of the fatalities were alcohol-related. Alcohol involvement is more apt to occur, and more likely to be reported, in fatal accidents than in non-fatal accidents.

In Iowa during 1989, drivers involved in fatal accidents were not required by law to submit to an alcohol test. Testing for alcohol in both fatal and all accidents was based on "probable cause," as determined by the investigating officer. Care should be used in comparing the yearly percentages of alcohol-related fatal accidents due to fluctuations in the number of reports received.

Iowa alcohol-related accident figures should not be compared to states where an alcohol test is mandatory.

Driver Age	All Accidents		Fatal Accidents		Injury Accidents		Property Damage Accidents	
	No. of Drivers	%	No. of Drivers	%	No. of Drivers	%	No. of Drivers	%
15 & younger	13	0.3	0	--	10	0.4	3	0.1
16	90	1.9	5	2.7	57	2.3	28	1.3
17	150	3.1	4	2.2	89	3.6	57	2.6
18	240	5.0	16	8.7	127	5.1	97	4.5
19	294	6.1	6	3.3	162	6.5	126	5.8
20	251	5.2	9	4.9	136	5.5	106	4.9
21	275	5.7	7	3.9	140	5.6	128	5.9
22	255	5.3	4	2.2	134	5.4	117	5.4
23	249	5.1	10	5.5	110	4.4	129	5.9
24	208	4.3	6	3.3	102	4.1	100	4.6
25-34	1,658	34.3	64	33.9	860	34.7	734	33.8
35-44	666	13.8	35	19.1	327	13.2	304	14.0
45-54	227	4.7	13	7.1	104	4.2	110	5.1
55-64	140	2.9	5	2.7	75	3.0	60	2.8
65-74	62	1.3	0	--	32	1.3	30	1.4
75 & older	15	0.3	0	--	4	0.2	11	0.5
Not stated	44	0.9	1	0.5	11	0.4	32	1.5
Total no. of drivers	4,837		185		2,480		2,172	

Iowa
Accidents Involving
Alcohol

In 1989 there were:

213 persons killed in alcohol-related accidents, or 41.4percent of all traffic fatalities

3,727 persons injured in alcohol-related accidents

4,737 accidents involving alcohol and motor vehicles

189 fatal accidents involving alcohol and motor vehicles, or 41.8 percent of all fatal accidents

2,449 personal injury accidents involving alcohol and motor vehicles

2,099 property damage accidents involving alcohol and motor vehicles

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers/ Operators	Percent
Drinking driver/operator actions:		
Ran traffic control	359	7.4
Improper passing	58	1.2
Left of center, not passing	216	4.5
Failure to yield	182	3.8
Wrong way, one-way road	25	0.5
Speed too fast	716	14.8
Drag racing	13	0.3
Improper turn	54	1.1
Improper lane change	44	0.9
Following too close	121	2.5
Improper or no signal	13	0.3
Disregarded R.R. signal	7	0.1
Disregarded warning signal	17	0.4
Reckless driving	248	5.1
Improper backing	47	1.0
Illegal or improper parking	20	0.4
Failure to have control	2,595	53.6
Lights not on	21	0.4
Inattentive/distracted	362	7.5
Confused/inexperienced	140	2.9
Vision Obscured	146	3.0
Oversized vehicle	4	0.1
Other	603	12.5

Drinking pedestrian actions:	Pedestrians	Percent
Crossing against signal	0	--
Crossing, not at crosswalk	20	36.4
Walking, improper position on roadway	3	5.5
Walking with traffic	1	1.8
Walking against traffic	0	--
Crossing with signal or in crosswalk	3	5.5
Ran onto roadway or into road from between parked cars	10	18.2
Playing	0	--
Pushing, working on vehicle	0	--
Lying or sitting on roadway	3	5.5
Getting on or off vehicle	1	1.8
Walking, off roadway	1	1.8
Unknown/other	13	23.6

Note: From 0-2 action/circumstances are listed for each drinking driver, operator or pedestrian involved in an accident.

* Less than one-tenth of one percent.

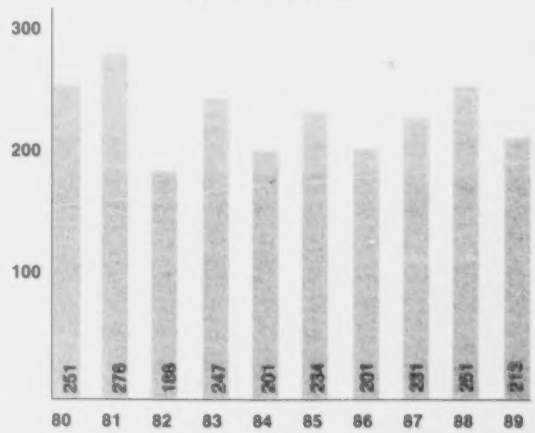
Condition	Number of Drivers/ Operators	(%)	Number of Pedestrians	(%)
Drinking - impaired	3,214	67.6	37	67.3
Drinking - not impaired	1,514	31.8	18	32.7
Drugs	3	0.1	--	--
Physical defect	0	--	--	--
Fatigued	4	0.1	--	--
Apparently asleep	13	0.3	--	--
Ill	0	--	--	--
Under medication	1	*	--	--
Infirmities of age	2	*	--	--
Other	4	0.1	--	--
Total no. of drivers (condition stated)	4,755		55	
Condition not stated	86			
GRAND TOTAL	4,841		55	

Note: Some of the drinking drivers were not listed as "condition = drinking," but did have a blood alcohol content greater than 0. This may occur because the report form provides space to list only one condition, although more than one condition may have been applicable to the driver at the time. If the driver fell asleep at the wheel and possessed a BAC above 0, for instance, the officer may have listed the condition as "apparently asleep."

* Less than one-tenth of one percent.

Sex	Number of Drivers/ Operators	(%)	Number of Pedestrians	(%)
Male	3,965	82.8	39	70.9
Female	825	17.2	16	29.1
Total no. of drivers (sex known)	4,790		55	
Sex not stated	51			
GRAND TOTAL	4,841		55	

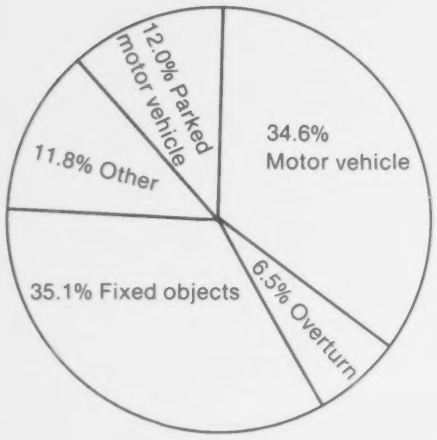
Alcohol-Related Fatalities 10-Yr. Trend



Note: In 1989 alcohol-related accidents 53.2 percent of the motor vehicle occupants who were killed or injured were not wearing safety belts, 20.1 percent were wearing safety belts, and safety belt use was unknown or unreported for 26.6 percent of those killed or injured.

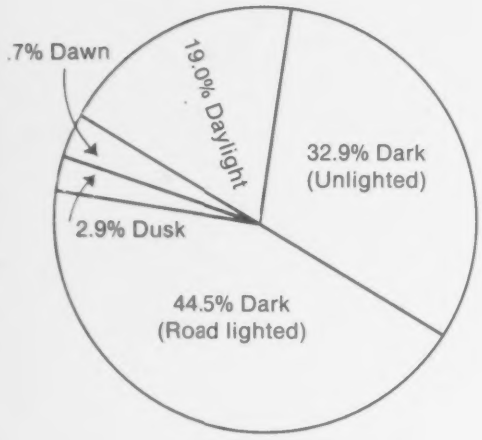
Alcohol-Related Crashes/1989

Accident Type



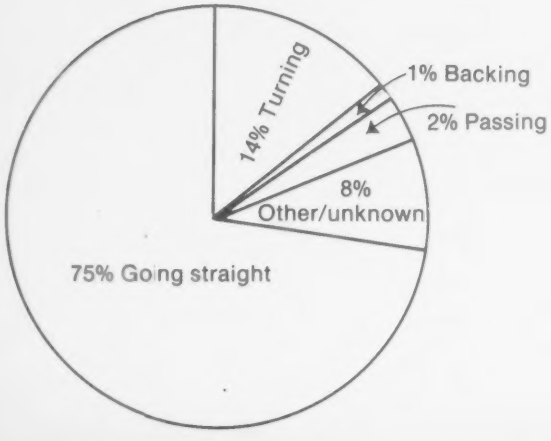
Traffic Controls

Light Condition



Fixed Objects

Vehicle Action



Weather	Number of Accidents	Percent
Clear	3,184	67.2
Cloudy	1,126	23.8
Fog	73	1.5
Mist	175	3.7
Rain	206	4.3
Sleet/hail	42	0.9
Snow	146	3.1
Strong wind	99	2.1
Other	29	0.6

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of accidents for this type of vehicle.

Total percent may not equal 100 due to rounding.

Alcohol-Related Crashes/1989

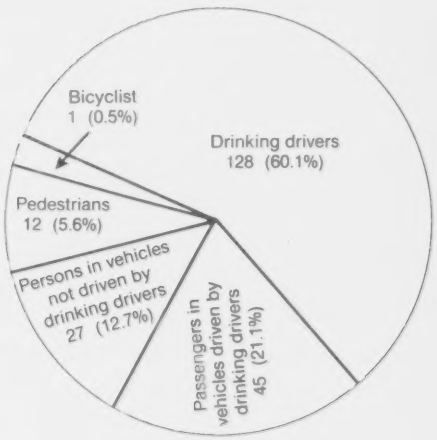
Fatalities/Injuries

1989 Deaths and Injuries by Age

Age	Number Killed	Number Injured
Under 14	7	140
14-15	2	68
16	4	136
17	11	178
18	13	229
19	9	240
20	5	207
21-24	30	655
25-34	67	1,041
35-44	39	432
45-54	16	161
55-64	7	109
65-74	3	58
75+	0	12
Unknown	0	61
Total	213	3,727

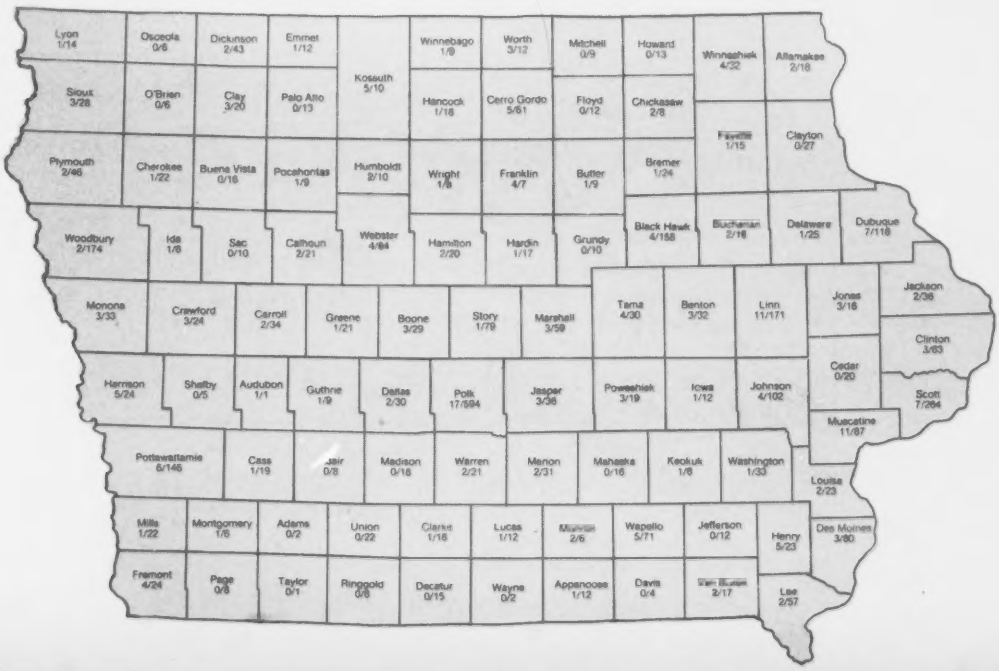
1989 Deaths and Injuries by Road Type

Road Type	Number Killed	Number Injured
Interstate	11	142
U.S. or state highways	97	1,247
County roads	80	999
City streets	25	1,308
Other/unknown	0	31
Total	213	3,727



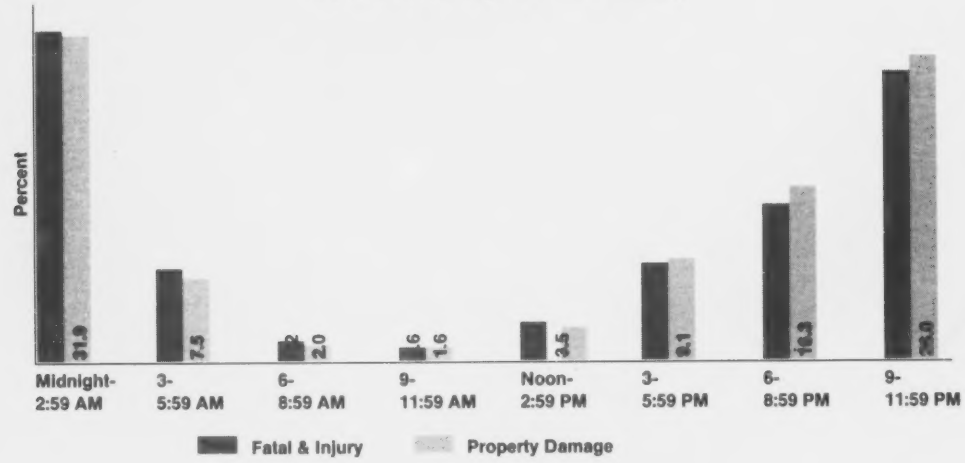
Persons Killed in Motor Vehicle Traffic Accidents Involving Alcohol
Total Killed: 213

1989 Fatalities/Injuries

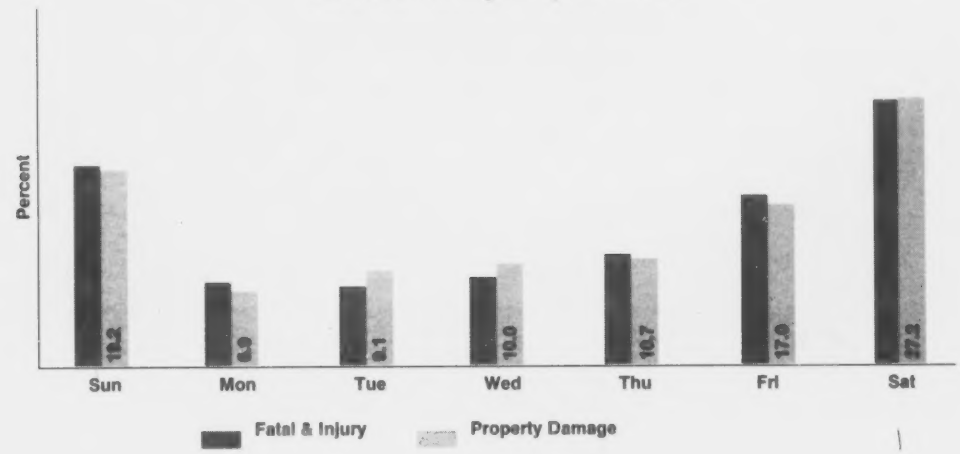


Alcohol Related Crashes/1989

Accidents By Time of Day



Accidents By Day of Week



Accidents By Month

Note: Total percent may not equal 100 due to rounding.

Safety Belt Usage/1989

Belt Usage By Road System

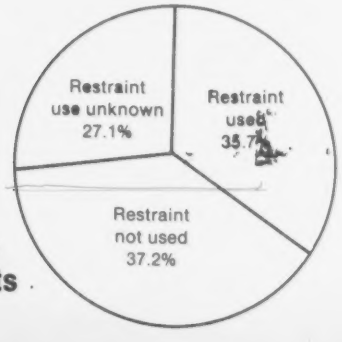
Road System	Restraint Usage	Killed Number	Killed %	Major Injury Number	Major Injury %	Minor or Possible Injury Number	Minor or Possible Injury %	Total Number	Total %
Interstate	Used	5	16.7	72	31.9	553	43.0	630	40.9
	Not used	20	66.7	106	46.9	375	29.2	501	32.5
	Unknown	5	16.7	48	21.2	357	27.8	410	26.6
	Total	30		226		1,285		1,541	
U.S./State Highway	Used	52	23.2	315	28.7	3,620	40.8	3,987	39.1
	Not used	141	62.9	484	44.0	2,201	24.8	2,826	27.7
	Unknown	31	13.8	300	27.3	3,042	34.3	3,373	33.1
	Total	224		1,099		8,863		10,186	
County	Used	10	8.4	167	20.4	1,456	33.3	1,633	30.8
	Not used	99	83.2	440	53.8	1,672	38.3	2,211	41.7
	Unknown	10	8.4	211	25.8	1,240	28.4	1,461	27.5
	Total	119		818		4,368		5,305	
City	Used	8	21.6	141	21.3	2,845	32.5	2,994	31.7
	Not used	24	64.9	301	45.4	2,565	29.3	2,890	30.6
	Unknown	5	13.5	221	33.3	3,345	38.2	3,571	37.8
	Total	37		663		8,755		9,455	

Belt Usage By Accident Type

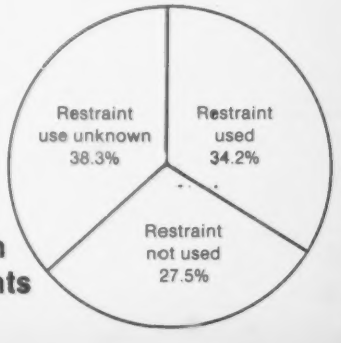
Accident Type	Restraint Usage	Killed Number	Killed %	Major Injury Number	Major Injury %	Minor or Possible Injury Number	Minor or Possible Injury %	Total Number	Total %
Overturn	Used	3	5.1	48	19.7	387	33.7	438	30.1
	Not used	49	83.1	148	60.7	438	38.1	635	43.7
	Unknown	7	11.9	48	19.7	325	28.3	380	26.2
	Total	59		244		1,150		1,453	
Collision with vehicle	Used	58	25.7	459	31.2	6,206	39.3	6,723	38.4
	Not used	134	59.3	555	37.7	3,772	23.9	4,461	25.5
	Unknown	34	15.0	459	31.2	5,818	36.8	6,311	36.1
	Total	226		1,473		15,796		17,495	
Collision with fixed object	Used	13	11.7	129	16.7	1,225	29.2	1,367	26.9
	Not used	89	80.2	455	58.9	1,787	42.6	2,331	45.9
	Unknown	9	8.1	189	24.5	1,187	28.3	1,385	27.2
	Total	111		773		4,199		5,083	
Collision with other	Used	1	7.1	30	22.9	324	28.0	355	27.2
	Not used	11	78.6	56	42.7	435	37.5	502	38.5
	Unknown	2	14.3	45	34.4	400	34.5	447	34.3
	Total	14		131		1,159		1,304	

Note: Total percent may not equal 100 due to rounding. Restraint usage for uninjured occupants is not available. Excludes pedestrians, bicycles, motorcycles, mopeds, farm vehicles, ATVs, and occupants on the exterior or "other" (eg. back of pickup).

Belt Usage in Rural Accidents



Belt Usage in Urban Accidents



Safety Belt Usage/1989

Belt Usage By Position

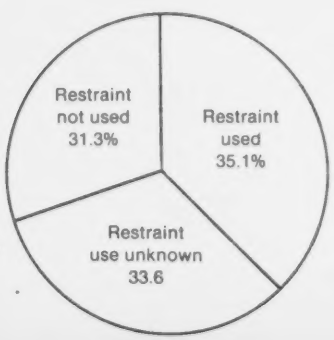
Road System	Restraint Usage	Killed Number	Killed %	Major Injury Number	Major Injury %	Minor or Possible Injury Number	Minor or Possible Injury %	Total Number	Total %
Driver	Used	46	16.4	513	27.8	5,746	38.5	6,305	37.0
	Not used	200	71.2	791	42.8	3,724	24.9	4,715	27.6
	Unknown	35	12.5	544	29.4	5,463	36.6	6,042	35.4
	Total	281		1,848		14,933		17,062	
Front Seat Passenger	Used	26	26.5	161	24.0	2,190	37.4	2,377	35.9
	Not used	58	59.2	362	54.0	2,032	34.7	2,452	37.0
	Unknown	14	14.3	147	21.9	1,634	27.9	1,795	27.1
	Total	98		670		5,856		6,624	
Back Seat Passenger	Used	3	12.0	23	10.2	461	25.4	487	23.6
	Not used	19	76.0	153	68.0	938	51.7	1,110	53.8
	Unknown	3	12.0	49	21.8	416	23.0	468	22.7
	Total	25		225		1,815		2,065	
Position Unknown	Used	--	--	--	--	96	12.6	96	11.5
	Not used	8	100.0	28	40.0	157	20.7	193	23.0
	Unknown	--	--	42	60.0	507	66.7	549	65.5
	Total	8		70		760		838	

Belt Usage in Selected Vehicles

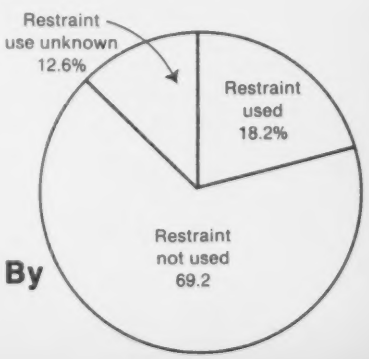
Accident Type	Restraint Usage	Killed Number	Killed %	Major Injury Number	Major Injury %	Minor or Possible Injury Number	Minor or Possible Injury %	Total Number	Total %
Passenger Car	Used	67	21.8	583	26.4	7,211	37.6	7,861	36.2
	Not used	201	65.5	1,026	46.4	5,498	28.6	6,725	31.0
	Unknown	39	12.7	601	27.2	6,489	33.8	7,129	32.8
	Total	307		2,210		19,198		21,715	
Panel/Van/ Pickup	Used	7	8.0	88	18.2	1,025	31.3	1,120	29.1
	Not used	73	83.0	259	53.6	1,152	35.1	1,484	38.5
	Unknown	8	9.1	136	28.2	1,102	33.6	1,246	32.4
	Total	88		483		3,279		3,850	
Straight Truck/ Truck Tractors Semis	Used	0	--	15	24.2	150	37.3	165	34.7
	Not Used	7	58.3	26	41.9	117	29.1	150	31.5
	Unknown	5	41.7	21	33.9	135	33.6	161	33.8
	Total	12		62		402		476	
Car or Pickup with Trailer or Camper	Used	1	33.3	7	35.0	36	41.4	44	40.0
	Not used	2	66.7	8	40.0	25	28.7	35	31.8
	Unknown	0	--	5	25.0	26	29.9	31	28.2
	Total	3		20		87		110	

Note: Total percent may not equal 100 due to rounding. Restraint Usage for uninjured occupants is not available. Excludes pedestrians, bicycles, motorcycles, mopeds, farm vehicles, ATVs, and occupants on the exterior or "other" (eg. back of pickup).

Belt Usage By Injured



Belt Usage By Killed



Child Restraint Usage
Children Under 6 Years of Age/1989

Severity*	Type	Front Seat Occupant		Back Seat Occupant		Position Unknown		Totals	
		Number	%	Number	%	Number	%	Number	%
Killed	Child restraint used	0	--	1	33.3	0	--	1	14.3
	Other restraint	0	--	1	33.3	0	--	1	14.3
	None	2	100.0	1	33.3	2	100.0	5	71.4
	Unknown	0	--	0	--	0	--	0	--
Injured	Child restraint used	61	14.5	104	34.9	7	6.6	172	20.8
	Other restraint	116	27.5	56	22.1	16	15.1	198	24 0
	None	150	35.5	87	29.2	26	24.5	263	31.8
	Unknown	95	22.5	41	13.8	57	53.8	193	23.4
Total*	Child restraint used	61	14.4	105	34.9	7	6.5	173	20.8
	Other restraint	116	27.4	67	22.3	16	14.8	199	23.9
	None	152	35.8	88	29.2	28	25.9	268	32.2
	Unknown	95	22.4	41	13.6	57	52.8	193	23.2
Grand Total		424		301		108		833	

* Excludes bicyclists, pedestrians, farm tractors, motorcycles, mopeds, ATVs, bus passengers, and occupants riding on exterior or "other" (i.e. back of pickup).

Total percent may not equal 100 due to rounding.

Fatalities and Injuries of Children Under 6 Years of Age
(Occupants of Passenger Vehicles)

Year	Fatalities	Injuries	% Restraint Used
1982	7	826	8.8
1983	5	780	10.7
1984	8	769	13.6
1985*	3	708	31.1
1986	5	649	31.8
1987	5	659	48.3
1988	11	653	46.1
1989	7	826	44.7

* Child restraint law in effect.

Accident Summary/1989

Number of Accidents Involving Specific Vehicle Types

	All Accidents		Fatal Accidents		
Vehicle Type	No.	Percent	No.[1]	Percent	Drivers: % with Iowa Licenses[2]
Automobile	59,961	84.8	314	69.5	87.8
Automobile/pickup with trailer or camper	815	1.2	6	1.3	66.7
Bus	217	0.3	0	--	--
School bus	250	0.4	0	--	--
Bicycle	692	1.0	7	1.5	--
Moped	261	0.4	1	0.2	100.0
Motorcycle	1,506	2.1	42	9.3	97.7
Farm vehicle	285	0.4	10	2.2	100.0
Motor home	110	0.2	0	--	--
Train	136	0.2	6	1.3	--
Panel/van/pickup	18,246	25.8	125	27.7	86.8
Straight truck	1,380	2.0	17	3.8	88.2
Tow/maintenance/ construction vehicle	493	0.7	3	0.7	100.0
Truck tractor	160	0.2	0	--	--
Truck tractor with trailer	2,408	3.4	63	13.9	59.4
Unknown/Other	4,900	6.9	4	0.9	--
ATV	32	*	3	0.7	100.0

"All Accidents" percentages are based on 70,716 accidents which occurred in 1989. Fatal accident percentages are based on 452 fatal accidents which occurred in 1989.

[1] Percent of drivers with Iowa licenses does not include legally parked vehicles involved in fatal accidents. Therefore, number of fatal accidents may not be the number of vehicles involved in fatal accidents found on vehicle pages.

[2] 85.7 percent of all drivers involved in fatal accidents in Iowa during 1988 were licensed in Iowa.

* Less than one-tenth of one percent.

Vehicle Registrations*

	1988	1989**
Automobiles	1,816,794	1,844,690
Buses	9,219	9,210
Motor Homes	18,301	18,783
Motorcycles	145,967	139,038
Mopeds	47,711	43,669
Trucks	656,669	667,883
Truck Tractors	7,263	7,331
Total	2,701,924	2,730,604

* Includes vehicles registered in Iowa. Does not include trucks registered in more than one state.

** Decrease reflects a change that eliminates vehicles with dealer titles and all trucks registered to operate in more than one state.

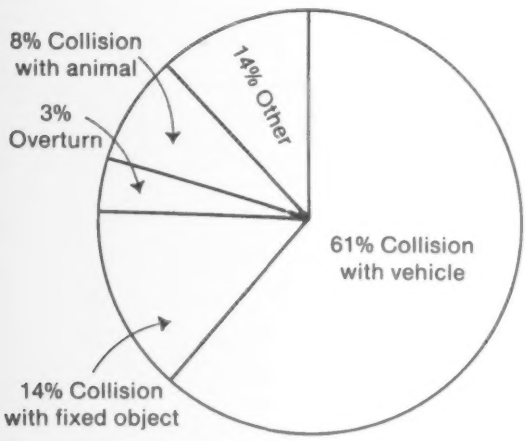
Accident Summary/1989

Accident Type

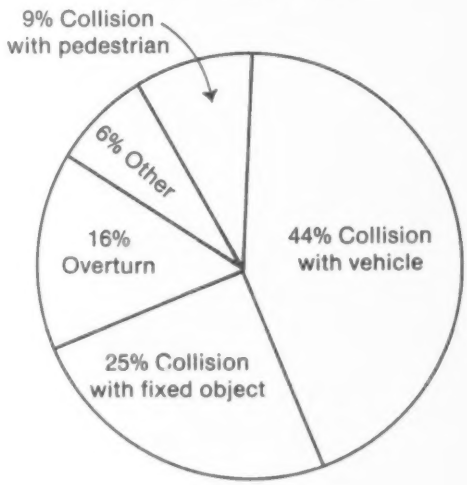
Vehicles Involved in Accidents

	Auto	Pickup/van	Auto or pickup with trailer	Motorcycle	Moped	Tow/maintenance	Bus	School bus	Straight truck	Truck tractor	Truck/trailer	Farm vehicle	Other	Total
Overturn	1,194	489	73	174	31	8	2	0	88	7	192	17	21	2,296
Collision with:														
Pedestrian	645	134	7	19	10	4	3	1	8	1	9	2	4	847
Vehicle in traffic	67,106	13,728	542	418	151	369	185	214	1,005	114	1,645	220	411	86,108
Parked vehicle	7,030	1,841	71	33	20	55	16	18	93	11	131	10	88	9,417
Motorcycle in traffic	365	60	5	462	2	2	0	2	5	0	2	1	1	907
Pedacycle	430	79	3	7	11	1	0	0	2	0	1	0	1	535
Train	80	23	4	1	0	1	0	0	5	0	13	5	0	132
Animal	4,284	1,065	23	49	1	4	1	3	17	5	93	0	31	5,576
Fixed object	7,228	1,873	61	168	10	37	8	12	137	18	297	17	50	9,916
Other object	515	159	24	30	9	9	0	1	10	2	39	4	11	813
Other	1,416	464	28	171	25	6	3	3	39	6	72	11	23	2,267
Total	90,293	19,915	841	1,532	270	496	218	254	1,409	164	2,494	287	641	118,814

All Accidents



Fatal Accidents



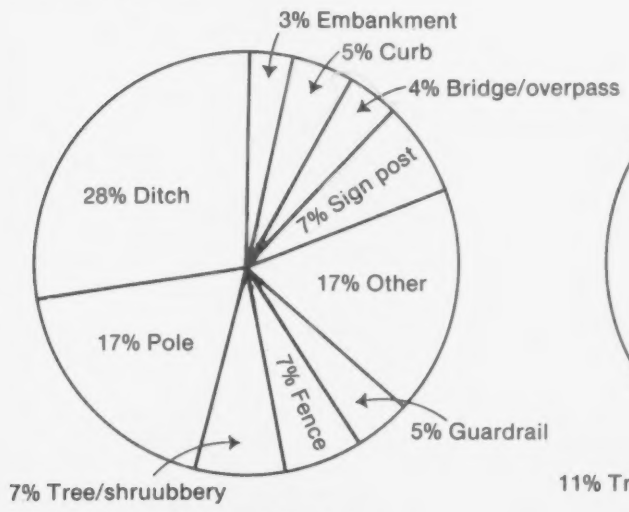
Accident Summary/1989

Fixed Objects

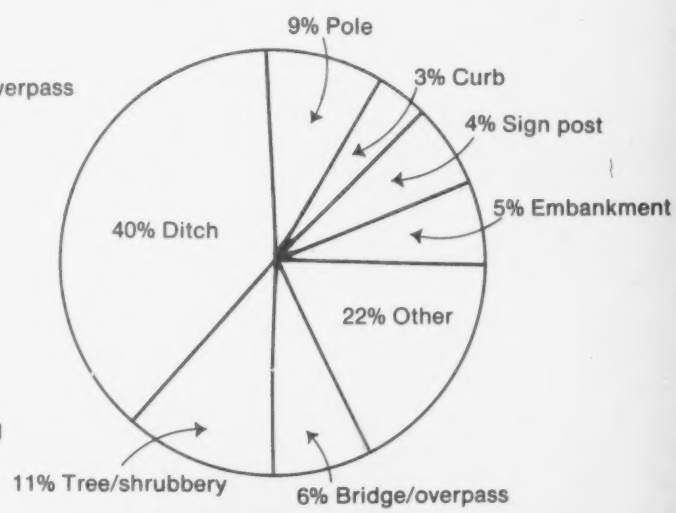
Fixed Objects - All Accidents by Vehicle Type

	Auto	Pickup/van	Auto or pickup with trailer	Motorcycle	Moped	Tow/maintenance	Bus	School bus	Straight truck	Truck tractor	Truck/trailer	Farm vehicle	Other	Total
Ditch	2,977	912	46	107	2	18	3	6	111	4	128	21	14	4,349
Pole	1,962	451	16	12	2	12	3	1	32	3	128	2	12	2,636
Sign post	803	205	12	10	0	2	0	1	11	1	45	0	3	1,093
Tree/shrubbery	855	229	5	11	0	5	2	3	8	0	10	1	8	1,137
Guardrail	516	117	9	8	0	1	0	1	5	1	28	0	5	691
Fence	737	214	4	9	0	0	1	1	10	1	25	2	6	1,011
Bridge/overpass	442	141	7	4	0	5	1	0	21	4	41	6	4	676
Curb	547	88	5	68	3	4	0	0	4	0	5	1	5	730
Building	300	80	1	1	0	2	0	1	5	1	9	0	3	403
Embankment/wall	360	69	4	6	1	0	0	0	1	0	6	0	4	451
Culvert	239	67	3	4	0	1	0	0	2	0	9	1	3	329
Mailbox	200	74	3	5	2	2	2	0	3	0	3	2	3	299
Underpass	38	11	1	1	1	1	0	0	5	0	8	0	0	66
Impact attenuator	24	3	0	0	0	0	0	0	0	0	2	0	0	29
Other	981	249	12	51	10	5	0	4	15	6	55	0	5	1,393
Total	10,981	2,910	128	297	21	58	12	18	233	21	503	36	75	15,293

Fixed Object Struck



All Accidents



Fatal Accidents

Accident Summary/1989

Vehicle Defect

	Auto	Pickup/van	Auto or pickup with trailer	Motorcycle	Moped	Tow/ maintenance	Bus	School bus	Straight truck	Truck tractor	Semi	Farm tractor	Other	Total
Brakes	337	80	7	14	4	4	0	1	42	2	14	1	3	509
Tires	247	64	11	22	0	0	1	2	22	1	15	1	1	387
Lights	61	55	10	6	0	0	0	0	8	1	3	5	3	152
Steering	63	22	0	2	0	3	0	0	4	0	7	3	2	106
Trailer hitch	8	9	17	0	0	0	1	0	4	1	3	3	2	48
Wipers	28	1	0	0	0	0	0	0	0	0	0	0	0	29
Other	297	86	16	15	3	9	1	3	17	6	38	8	8	507
None	54,908	12,300	516	959	190	357	147	154	873	110	1,674	181	347	72,716
Not stated	34,344	7,298	264	514	73	123	68	94	439	43	740	85	275	44,360
Total vehicles	90,293	19,915	841	1,532	270	496	218	254	1,409	164	2,494	287	641	118,814

Traffic Controls

	Auto	Pickup/van	Auto or pickup with trailer	Motorcycle	Moped	Bus	School bus	Straight truck	Truck tractor	Truck/trailer	Farm tractor	Tow/ maintenance	Other
No controls	37,902	12,415	598	1,139	224	130	141	907	102	1,567	247	343	435
Traffic signals	9,855	2,710	92	178	10	58	28	192	29	415	1	58	86
Stop signs	8,196	1,735	58	64	19	20	53	156	14	179	9	39	48
Yield sign	675	164	6	4	1	2	5	11	1	6	1	7	11
No passing zone	536	167	8	24	0	0	3	18	1	45	8	5	10
R.R. warning	103	26	2	1	1	1	2	3	0	7	2	2	2
R.R. automatic	43	21	1	1	0	0	0	2	0	5	2	2	0
R.R. crossing gate	25	9	3	0	0	0	1	1	0	2	0	0	0
Other	1,411	440	26	67	0	2	12	58	6	115	9	19	13
Not stated	1,235	559	21	28	6	4	5	32	7	67	6	18	22
Total accidents	59,961	18,246	815	1,506	261	217	250	1,380	160	2,408	285	493	627

Weather*

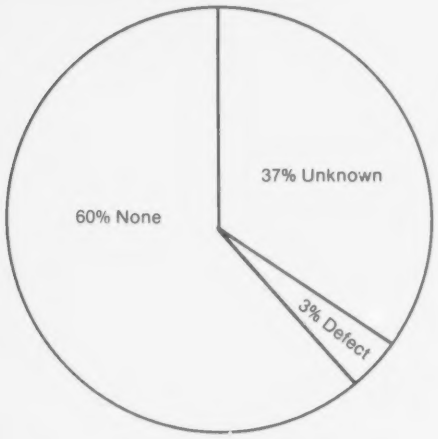
	Auto	Pickup/van	Auto or pickup with trailer	Motorcycle	Moped	Bicycle	Bus	School bus	Straight truck	Truck tractor	Truck/trailer	Farm tractor	Tow/ maintenance	Other
Clear	38,430	11,479	537	1,212	210	522	142	151	915	107	1,494	212	290	377
Cloudy	13,784	4,304	188	230	36	150	56	64	314	42	578	61	126	157
Fog	623	218	14	7	2	0	1	1	17	0	42	1	4	9
Mist	1,694	554	25	13	2	8	6	3	39	4	76	8	19	19
Rain	3,204	1,007	44	26	9	14	8	15	78	5	156	5	19	33
Sleet/hail	618	198	5	1	0	0	7	4	24	4	52	2	12	12
Snow	3,216	1,104	36	1	0	2	9	23	76	5	148	3	59	46
Strong wind	1,028	390	24	14	4	6	1	8	25	2	82	6	20	18
Other/unknown	2,461	719	29	41	7	18	8	7	27	4	62	5	12	21
Total	65,058	19,973	902	1,545	270	720	238	276	1,515	173	2,690	303	561	692

*Up to two weather conditions may be listed for each accident.

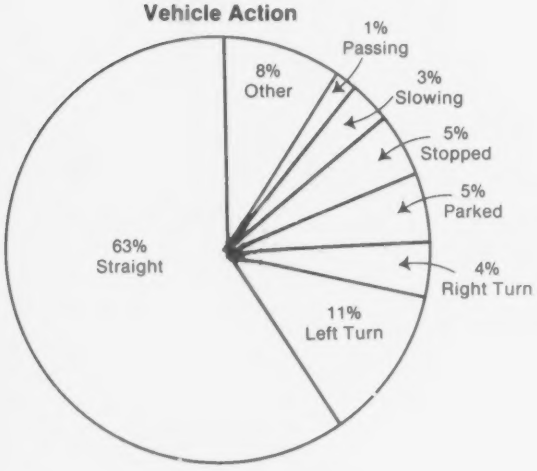
Accident Summary/1989

All Accidents

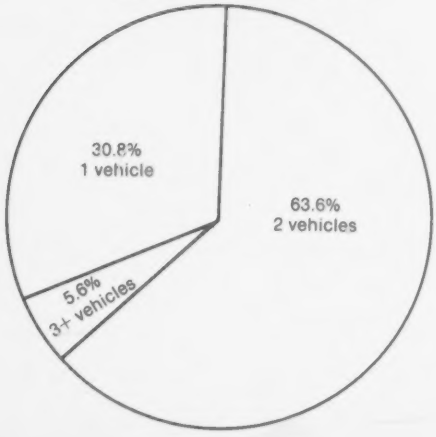
Vehicle Defects



Vehicle Action

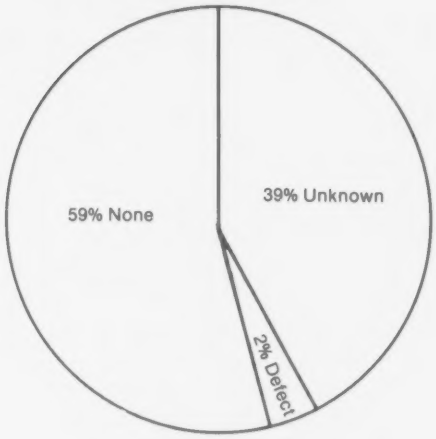


Number of Vehicles Involved in Accidents

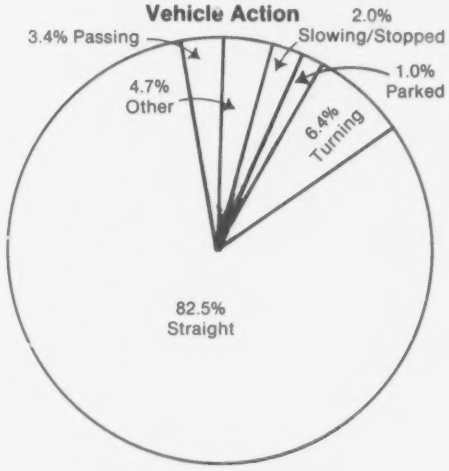


Fatal Accidents

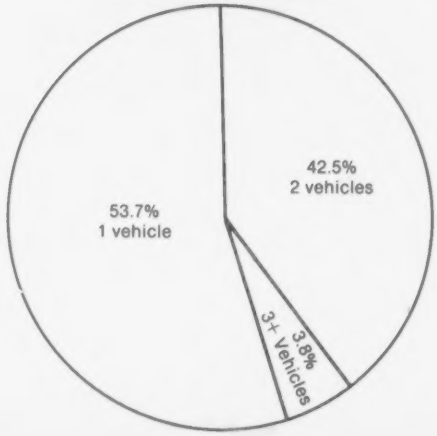
Vehicle Defects



Vehicle Action



Number of Vehicles Involved in Accidents



Accident Summary/1989

All Accidents

Surface Conditions	Number of Accidents	Percent
Dry	48,918	69.2
Wet	9,401	13.3
Ice	8,035	11.4
Snow	6,895	9.8
Loose gravel	2,667	3.8
Other	797	1.1

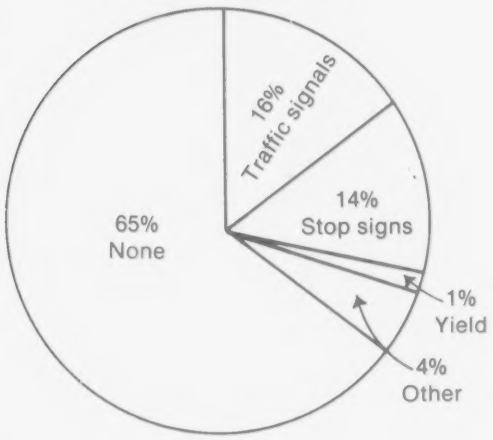
Note: Some accident reports listed more than one type of surface condition. The percentage listed is based on total number of accidents.

Fatal Accidents

Surface Conditions	Number of Accidents	Percent
Dry	358	79.2
Wet	48	10.6
Ice	23	5.1
Snow	17	3.8
Loose gravel	27	6.0
Other	9	2.0

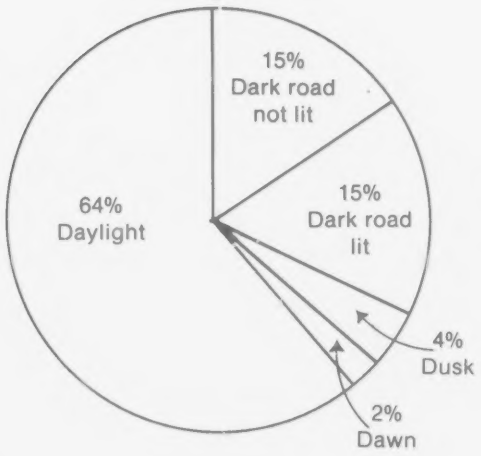
Note: Some accident reports listed more than one type of surface condition. The percentage listed is based on total number of fatal accidents.

Traffic Controls

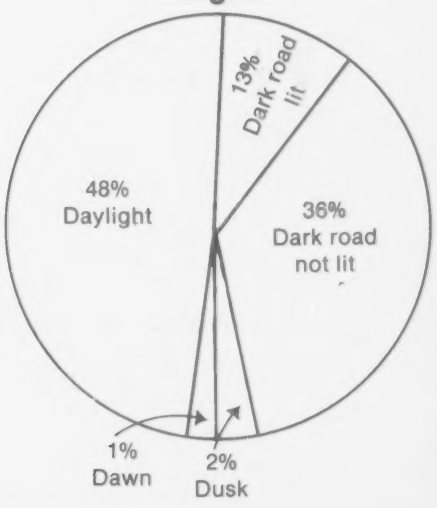


Traffic Controls

Light



Light



Accident Summary/1989

Roadway/Environmental-Related Conditions

	Auto	Pickup/van	Auto or pickup with trailer	Motorcycle	Moped	Tow/ maintenance	Bus	School bus	Straight truck	Truck tractor	Semi	Farm tractor	Other	Total
Weather conditions	1,706	441	29	8	3	27	3	6	35	3	95	4	61	2,421
Surface conditions	6,296	1,707	50	68	27	56	13	33	107	11	176	6	109	8,659
Pedestrian action	225	47	1	8	1	1	3	0	0	0	6	0	7	299
Previous accident	160	32	1	0	0	3	0	0	3	0	7	0	8	214
Animal in roadway	2,077	514	11	39	1	2	0	2	11	4	54	0	16	2,731
Non-contact vehicle	1,284	301	17	39	6	7	3	3	25	4	50	5	28	1,772
Construction area	401	109	14	10	0	21	1	1	19	4	63	0	13	656
Other	939	262	13	28	4	4	3	5	29	1	47	8	26	1,369
None	53,890	11,721	527	1,151	186	290	151	134	936	109	1,597	227	999	71,918
Not stated	23,315	4,781	178	181	42	85	41	70	244	28	399	37	4,674	34,075
Total vehicles	90,293	19,915	841	1,532	270	496	218	254	1,409	164	2,494	287	5,941	124,114

All Accidents

	Interstate	US/State Highway	County	City	Other	Total
Weather conditions	191	632	246	596	5	1,670
Surface conditions	498	1,683	1,204	3,033	54	6,472
Pedestrian action	10	67	22	176	10	285
Previous accident	41	50	9	40	0	140
Animal in roadway	151	1,299	1,114	109	6	2,679
Non-contact vehicle	89	550	172	459	3	1,273
Construction area	153	124	31	71	0	379
Other	60	288	193	499	23	1,063
None	1,603	13,251	5,117	18,634	285	38,890
Not stated	811	5,693	2,271	8,891	199	17,865
Total	3,607	23,637	10,379	32,508	585	70,716

Fatal Accidents

	Interstate	US/State Highway	County	City	Other	Total
Weather conditions	0	11	3	2	0	16
Surface conditions	2	14	9	3	0	28
Pedestrian action	5	6	2	1	0	14
Previous accident	1	4	0	0	0	5
Animal in roadway	0	0	2	0	0	2
Non-contact vehicle	1	3	0	0	0	4
Construction area	0	2	2	0	0	4
Other	0	4	0	0	0	4
None	28	161	111	53	1	354
Not stated	0	9	8	4	0	21
Total	37	214	137	63	1	452

Accident Summary/1989

Fatal Crashes

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	59	8.7
Improper passing	12	1.8
Left of center, not passing	82	12.1
Failure to yield	29	4.3
Wrong way, one-way road	3	0.4
Speed too fast	82	12.1
Drag racing	1	0.1
Improper turn	4	0.6
Improper lane change	2	0.3
Following too close	2	0.3
Improper or no signal	0	--
Disregarded R.R. signal	1	0.1
Disregarded warning signal	3	0.4
Reckless driving	6	0.9
Improper backing	0	--
Illegal or improper parking	3	0.4
Failure to have control	201	29.6
Lights not on	0	--
Inattentive/distracted	26	3.8
Confused/inexperienced	7	1.0
Vision obscured	21	3.1
Oversized vehicle	0	--
Other	24	3.5

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Fatal Accidents

Weather	Number of Accidents	Percent
Clear	296	65.5
Cloudy	112	24.8
Fog	8	1.8
Mist	17	3.8
Rain	18	4.0
Sleet/hail	2	0.4
Snow	13	2.9
Strong wind	14	3.1
Other	2	0.4

Note: Some accident reports listed more than one type of weather condition. The percentage listed for each weather condition is based on the total number of fatal accidents.

Total percent may not equal 100 due to rounding.

Driver Condition	Number of Drivers	Percent
Apparently normal	394	65.4
Drinking - impaired	137	22.8
Drinking - not impaired	42	7.0
Drugs	2	0.3
Physical defect	3	0.5
Fatigued	2	0.3
Apparently asleep	7	1.2
Ill	0	--
Under medication	2	0.3
Infirmities of age	6	1.0
Other	7	1.2
Total no. of drivers (Condition known)	602	
Not stated	78	
GRAND TOTAL	680	

Note: Total percentage may not equal 100 due to rounding.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	566	82.9
Turning left	40	5.9
Turning right	4	0.6
Backing	4	0.6
Stopped in traffic	10	1.5
Parked	7	1.0
Making U-turn	2	
Passing	23	
Changing lanes	3	
Merging	5	7.6
Parking	0	
Slowing-stopping	4	
Unattended moving vehicle	1	
Other	14	
Total no. of vehicles (action stated)	683	
Action not stated	5	
GRAND TOTAL	688	

Note: Total number of vehicles includes parked vehicles involved in accidents.

1989 Alcohol Involvement in Fatal Crashes

Vehicle Type	Total Drivers/ Pedestrians	Total Tested	Total Drinking (less than .10)	Total Drunk (.10 or more)	Tested Result .000	Tested Result Unknown
Driver	634	338	41	126	143	29*
Motorcycle driver	43	34	6	13	15	0
Pedestrian	40	13	4	8	1	0
All-terrain vehicle driver	3	1	0	0	0	1
Total	720	386	51	147	159	30

Iowa
Accidents Involving
All Vehicles

In 1989 there were:
- **468 motor vehicle occupants killed**
- **28,134 motor vehicle occupants injured**
- **70,716 accidents involving motor vehicles**
  - **452 fatal accidents involving motor vehicles**
  - **20,612 personal injury accidents involving motor vehicles**
  - **49,652 property damage accidents involving motor vehicles**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	8,018	6.8
Improper passing	1,056	0.9
Left of center, not passing	1,181	1.0
Failure to yield	7,710	6.5
Wrong way, one-way road	108	0.1
Speed too fast	4,932	4.2
Drag racing	43	*
Improper turn	1,315	1.1
Improper lane change	1,390	1.2
Following too close	2,610	2.2
Improper or no signal	384	0.3
Disregarded R.R. signal	48	*
Disregarded warning signal	98	0.1
Reckless driving	613	0.5
Improper backing	1,445	1.2
Illegal or improper parking	188	0.2
Failure to have control	13,706	11.6
Lights not on	109	0.1
Inattentive/distracted	5,905	5.0
Confused/inexperienced	2,168	1.8
Vision obscured	8,362	7.1
Oversized vehicle	93	0.1
Other	5,129	4.3

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

*Less than one-tenth of one percent.

Driver Condition	Number of Drivers	Percent
Apparently normal	96,473	93.0
Drinking - impaired	3,193	3.1
Drinking - not impaired	1,503	1.4
Drugs	81	0.1
Physical defect	151	0.1
Fatigued	453	0.4
Apparently asleep	719	0.7
Ill	94	0.1
Under medication	113	0.1
Infirmities of age	528	0.5
Other	392	0.4
Total no. of drivers (condition stated)	103,700	
Condition not stated	14,230	
GRAND TOTAL	117,930	

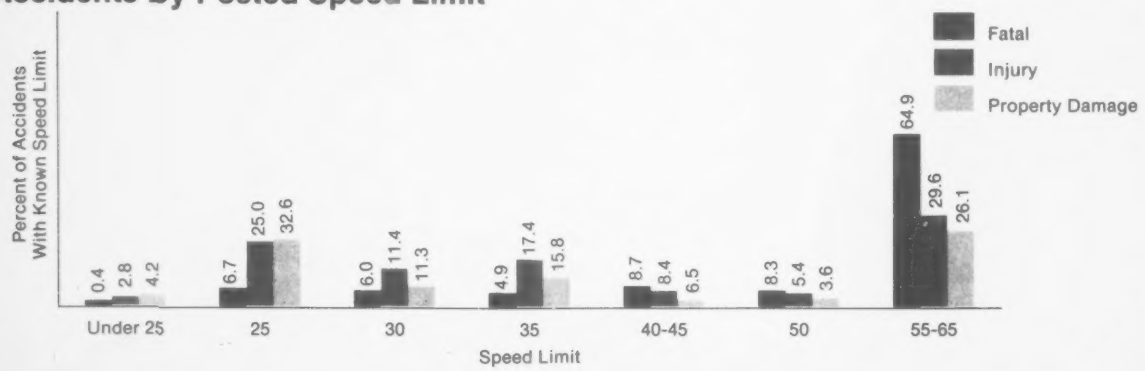
Note: Total percent may not equal 100 percent due to rounding.

The Machine

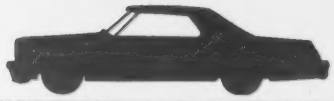
Vehicle Action	Number of Vehicles	Percent
Going straight	76,863	63.3
Turning left	13,849	11.4
Turning right	4,933	4.1
Backing	3,227	2.7
Stopped in traffic	6,123	5.0
Parked	6,022	5.0
Making U-turn	297	
Passing	1,370	
Changing lanes	1,825	
Merging	763	8.5
Parking	208	
Slowing-stopping	3,853	
Unattended moving vehicle	162	
Other	1,873	
Total no. of vehicles (action stated)	121,368	
Action not stated	2,746	
GRAND TOTAL	124,114	

Note: Total number of vehicles includes parked vehicles involved in accidents.

Accidents By Posted Speed Limit



Iowa Accidents Involving Automobiles



In 1989 there were:

- **308 automobile occupants killed**
- **21,524 automobile occupants injured**
- **59,961 accidents involving automobiles**
  - **314 fatal accidents involving automobiles**
  - **17,180 personal injury accidents involving automobiles**
  - **42,467 property damage accidents involving automobiles**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	6,446	7.5
Improper passing	711	0.8
Left of center, not passing	835	1.0
Failure to yield	6,221	7.2
Wrong way, one-way road	89	0.1
Speed too fast	3,620	4.2
Drag racing	33	*
Improper turn	912	1.1
Improper lane change	968	1.1
Following too close	1,964	2.3
Improper or no signal	227	0.3
Disregarded R.R. signal	28	*
Disregarded warning signal	55	0.1
Reckless driving	450	0.5
Improper backing	869	1.0
Illegal or improper parking	110	0.1
Failure to have control	9,922	11.6
Lights not on	77	0.1
Inattentive/distracted	4,477	5.2
Confused/inexperienced	1,700	2.0
Vision obscured	6,288	7.3
Oversized vehicle	14	*
Other	3,462	4.0

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

*Less than one-tenth of one percent.

Driver Condition	Number of Drivers	Percent
Apparently normal	71,814	93.1
Drinking - impaired	2,295	3.0
Drinking - not impaired	1,113	1.4
Drugs	63	0.1
Physical defect	116	0.2
Fatigued	327	0.4
Apparently asleep	518	0.7
Ill	75	0.1
Under medication	64	0.1
Infirmities of age	467	0.6
Other	301	0.4
Total no. of drivers (condition stated)	77,173	
Condition not stated	8,685	
GRAND TOTAL	85,858	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	45,914	54.5
Female	38,379	45.5
Total no. of drivers (sex known)	84,293	
Sex not stated	1,565	
GRAND TOTAL	85,858	

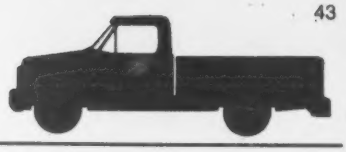
Driver Age	Number of Drivers	Percent
15 & younger	562	0.7
16	4,321	5.1
17	4,650	5.5
18	4,574	5.4
19	3,902	4.6
20-24	13,607	16.2
25-34	18,587	22.1
35-44	12,519	14.9
45-54	7,013	8.4
55-64	5,753	6.9
65-74	4,957	5.9
75 & older	3,519	4.2
Total no. of drivers (age known)	83,965	
Age not stated	1,893	
GRAND TOTAL	85,858	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	56,711	63.7
Turning left	10,674	12.0
Turning right	3,297	3.7
Backing	1,939	2.2
Stopped in traffic	4,667	5.2
Parked	4,343	4.9
Making U-turn	226	
Passing	924	
Changing lanes	1,250	
Merging	583	8.3
Parking	132	
Slowing-stopping	2,899	
Unattended moving vehicle	92	
Other	1,276	
Total no. of vehicles (action stated)	89,013	
Action not stated	1,280	
GRAND TOTAL	90,293	

Note: Total number of vehicles includes parked automobiles involved in accidents.

Iowa
Accidents Involving
Panels/Vans/Pickups



In 1989 there were:

88 panel/van/pickup occupants killed
3,812 panel/van/pickup occupants injured
18,246 accidents involving panels/vans/pickups
125 fatal accidents involving panels/vans/pickups
4,913 personal injury accidents involving panels/vans/pickups
13,208 property damage accidents involving panels/vans/pickups

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	1,170	6.2
Improper passing	173	0.9
Left of center, not passing	226	1.2
Failure to yield	1,071	5.7
Wrong way, one-way road	15	0.1
Speed too fast	869	4.6
Drag racing	5	*
Improper turn	202	1.1
Improper lane change	235	1.3
Following too close	430	2.3
Improper or no signal	89	0.5
Disregarded R.R. signal	11	0.1
Disregarded warning signal	24	0.1
Reckless driving	92	0.5
Improper backing	350	1.9
Illegal or improper parking	43	0.2
Failure to have control	2,416	12.9
Lights not on	20	0.1
Inattentive/distracted	968	5.2
Confused/inexperienced	254	1.4
Vision obscured	1,341	7.2
Oversized vehicle	4	*
Other	940	5.0

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

*Less than one-tenth of one percent.

Driver Condition	Number of Drivers	Percent
Apparently normal	15,344	91.6
Drinking - impaired	724	4.3
Drinking - not impaired	295	1.8
Drugs	8	*
Physical defect	22	0.1
Fatigued	83	0.5
Apparently asleep	140	0.8
Ill	11	0.1
Under medication	23	0.1
Infirmities of age	45	0.3
Other	60	0.4
Total no. of drivers (condition stated)	16,755	
Condition not stated	1,981	
GRAND TOTAL	18,736	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	15,316	83.6
Female	3,014	16.4
Total no. of drivers (sex known)	18,330	
Sex not stated	406	
GRAND TOTAL	18,736	

Driver Age	Number of Drivers	Percent
15 & younger	97	0.5
16	567	3.1
17	578	3.2
18	579	3.2
19	610	3.3
20-24	2,713	14.9
25-34	5,007	27.4
35-44	3,507	19.2
45-54	1,971	10.8
55-64	1,491	8.2
65-74	845	4.6
75 & older	293	1.6
Total no. of drivers (age known)	18,258	
Age not stated	478	
GRAND TOTAL	18,736	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	12,381	63.1
Turning left	1,962	10.0
Turning right	773	3.9
Backing	751	3.8
Stopped in traffic	984	5.0
Parked	1,141	5.8
Making U-turn	33	8.3
Passing	223	
Changing lanes	299	
Merging	100	
Parking	52	
Slowing-stopping	559	
Unattended moving vehicle	38	
Other	331	
Total no. of vehicles (action stated)	19,627	
Action not stated	288	
GRAND TOTAL	19,915	

Note: Total number of vehicles includes parked panels/vans/pickups involved in accidents.

Iowa
Accidents Involving

Automobiles/Pickups With Trailers Or Campers

In 1989 there were:

4 occupants of automobiles/pickups with trailers or campers killed

108 occupants of automobiles/pickups with trailers or campers injured

815 accidents involving automobiles/pickups with trailers or campers

- **6 fatal accidents involving automobiles/pickups with trailers or campers**
- **183 personal injury accidents involving automobiles/ pickups with trailers or campers**
- **626 property damage accidents involving automobiles/ pickups with trailers or campers**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	26	3.3
Improper passing	8	1.0
Left of center, not passing	11	1.4
Failure to yield	33	4.1
Wrong way, one-way road	0	--
Speed too fast	29	3.6
Drag racing	0	--
Improper turn	18	2.3
Improper lane change	10	1.3
Following too close	14	1.8
Improper or no signal	13	1.6
Disregarded R.R. signal	2	0.3
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	9	1.1
Illegal or improper parking	3	0.4
Failure to have control	103	12.9
Lights not on	2	0.3
Inattentive/distracted	29	3.6
Confused/inexperienced	15	1.9
Vision obscured	51	6.4
Oversized vehicle	3	0.4
Other	78	9.8

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	707	95.8
Drinking - impaired	10	1.4
Drinking - not impaired	9	1.2
Drugs	0	--
Physical defect	3	0.4
Fatigued	3	0.4
Apparently asleep	3	0.4
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	3	0.4
Total no. of drivers (condition stated)	738	
Condition not stated	60	
GRAND TOTAL	798	

Note: Total percent may not equal 100 due to rounding.

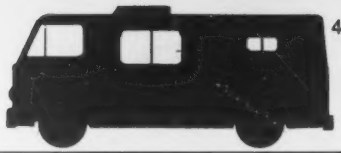
Driver Sex	Number of Drivers	Percent
Male	666	85.1
Female	117	14.9
Total no. of drivers (sex known)	783	
Sex not stated	15	
GRAND TOTAL	798	

Driver Age	Number of Drivers	Percent
15 & younger	5	0.6
16	6	0.8
17	16	2.1
18	19	2.4
19	26	3.3
20-24	82	10.5
25-34	197	25.3
35-44	162	20.8
45-54	108	13.9
55-64	86	11.1
65-74	51	6.6
75 & older	20	2.6
Total no. of drivers (age known)	778	
Age not stated	20	
GRAND TOTAL	798	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	533	63.6
Turning left	96	11.5
Turning right	42	5.0
Backing	18	2.1
Stopped in traffic	38	4.5
Parked	41	4.9
Making U-turn	0	
Passing	14	
Changing lanes	13	
Merging	2	8.4
Parking	2	
Slowing-stopping	23	
Unattended moving vehicle	2	
Other	14	
Total no. of vehicles (action stated)	838	
Action not stated	3	
GRAND TOTAL	841	

Note: Total number of vehicles includes parked automobiles/pickups with trailers or campers.



Iowa
Accidents Involving
Motor Homes

In 1989 there were:
- **0 motor home occupants killed**
- **16 motor home occupants injured**
- **110 accidents involving motor homes**
  - **0 fatal accident involving a motor home**
  - **21 personal injury accidents involving motor homes**
  - **89 property damage accidents involving motor homes**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	5	5.0
Improper passing	1	1.0
Left of center, not passing	1	1.0
Failure to yield	3	3.0
Wrong way, one-way road	0	--
Speed too fast	0	--
Drag racing	0	--
Improper turn	2	2.0
Improper lane change	3	3.0
Following too close	2	2.0
Improper or no signal	0	--
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	3	3.0
Illegal or improper parking	0	--
Failure to have control	10	10.0
Lights not on	1	1.0
Inattentive/distracted	5	5.0
Confused/inexperienced	2	2.0
Vision obscured	7	7.0
Oversized vehicle	3	3.0
Other	6	6.0

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	84	91.3
Drinking - impaired	1	1.1
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	1	1.1
Fatigued	1	1.1
Apparently asleep	2	2.2
Ill	0	--
Under medication	1	1.1
Infirmities of age	1	1.1
Other	1	1.1
Total no. of drivers (condition stated)	92	
Condition not stated	8	
GRAND TOTAL	100	

Note: Total percent may not equal 100 due to rounding.

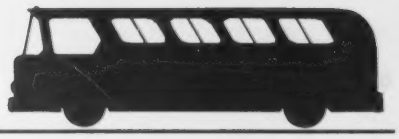
Driver Sex	Number of Drivers	Percent
Male	83	83.8
Female	16	16.2
Total no. of drivers (sex known)	99	
Sex not stated	1	
GRAND TOTAL	100	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	0	--
18	1	1.1
19	0	--
20-24	0	--
25-34	8	8.5
35-44	17	18.1
45-54	7	7.4
55-64	22	23.4
65-74	32	34.0
75 & older	7	7.4
Total no. of drivers (age known)	94	
Age not stated	6	
GRAND TOTAL	100	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	61	56.0
Turning left	8	7.3
Turning right	7	6.4
Backing	7	6.4
Stopped in traffic	4	3.7
Parked	9	8.3
Making U-turn	0	11.9
Passing	2	
Changing lanes	5	
Merging	0	
Parking	0	
Slowing-stopping	1	
Unattended moving vehicle	1	
Other	4	
Total no. of vehicles (action stated)	109	
Action not stated	1	
GRAND TOTAL	110	

Iowa Accidents Involving Buses



In 1989 there were:

- **0 bus occupants killed**
- **29 bus occupants injured**
- **217 accidents involving buses**
  - **0 fatal accidents involving buses**
  - **64 personal injury accidents involving buses**
  - **153 property damage accidents involving buses**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	9	4.3
Improper passing	1	0.5
Left of center, not passing	0	--
Failure to yield	12	5.7
Wrong way, one-way road	0	--
Speed too fast	6	2.9
Drag racing	0	--
Improper turn	4	1.9
Improper lane change	5	2.4
Following too close	6	2.9
Improper or no signal	1	0.5
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	5	2.4
Illegal or improper parking	2	1.0
Failure to have control	6	2.9
Lights not on	0	--
Inattentive/distracted	8	3.8
Confused/inexperienced	2	1.0
Vision obscured	11	5.2
Oversized vehicle	4	1.9
Other	8	3.8

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	202	99.5
Drinking - impaired	1	0.5
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	0	--
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of drivers (condition stated)	203	
Condition not stated	7	
GRAND TOTAL	210	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	160	77.3
Female	47	22.7
Total no. of drivers (sex known)	207	
Sex not stated	3	
GRAND TOTAL	210	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	0	--
18	0	--
19	0	--
20-24	20	9.7
25-34	40	19.3
35-44	48	23.2
45-54	51	24.6
55-64	37	17.9
65-74	8	3.9
75 & older	3	1.4
Total no. of drivers (age known)	207	
Age not stated	3	
GRAND TOTAL	210	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	117	53.7
Turning left	29	13.3
Turning right	15	6.9
Backing	7	3.2
Stopped in traffic	23	10.6
Parked	7	3.2
Making U-turn	0	9.2
Passing	1	
Changing lanes	3	
Merging	2	
Parking	0	
Slowing-stopping	8	
Unattended moving vehicle	1	
Other	5	
Total no. of vehicles (action stated)	218	
Action not stated	0	
GRAND TOTAL	218	

Note: Total number of vehicles includes parked buses involved in accidents.

Iowa Accidents Involving School Buses

In 1989 there were:

- **0 school bus occupants killed**
- **54 school bus occupants injured**
- **250 accidents involving school buses**
  - **0 fatal accident involving a school bus**
  - **57 personal injury accidents involving school buses**
  - **193 property damage accidents involving school buses**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	13	5.2
Improper passing	3	1.2
Left of center, not passing	4	1.6
Failure to yield	19	7.6
Wrong way, one-way road	1	0.4
Speed too fast	8	3.2
Drag racing	1	0.4
Improper turn	3	1.2
Improper lane change	0	--
Following too close	7	2.8
Improper or no signal	0	--
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	1	0.4
Improper backing	8	3.2
Illegal or improper parking	0	--
Failure to have control	14	5.6
Lights not on	0	--
Inattentive/distracted	7	2.8
Confused/inexperienced	2	0.8
Vision obscured	23	9.2
Oversized vehicle	2	0.8
Other	8	3.2

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	232	99.6
Drinking - impaired	0	--
Drinking - not impaired	1	0.4
Drugs	0	--
Physical defect	0	--
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of drivers (condition stated)	233	
Condition not stated	17	
GRAND TOTAL	250	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	133	53.6
Female	115	46.4
Total no. of drivers (sex known)	248	
Sex not stated	2	
GRAND TOTAL	250	

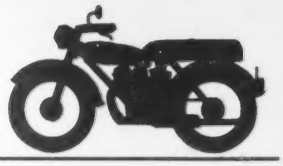
Driver Age	Number of Drivers	Percent
15 & younger	1	0.4
16	0	--
17	0	--
18	0	--
19	0	--
20-24	12	4.9
25-34	42	17.1
35-44	65	26.4
45-54	49	19.9
55-64	55	22.4
65-74	21	8.5
75 & older	1	0.4
Total no. of drivers (age known)	245	
Age not stated	4	
GRAND TOTAL	250	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	120	47.8
Turning left	38	15.1
Turning right	20	8.0
Backing	10	4.0
Stopped in traffic	35	13.9
Parked	4	1.6
Making U-turn	0	
Passing	2	
Changing lanes	1	
Merging	3	9.6
Parking	1	
Slowing-stopping	13	
Unattended moving vehicle	0	
Other	4	
Total no. of vehicles (action stated)	251	
Action not stated	3	
GRAND TOTAL	254	

Note: Total number of vehicles includes parked school buses involved in accidents.

Iowa Accidents Involving Motorcycles



In 1989 there were:

- **42 motorcycle operators or passengers killed**
- **1,372 motorcycle operators or passengers injured**
- **1,506 accidents involving motorcycles**
  - **42 fatal accidents involving motorcycles**
  - **1,205 personal injury accidents involving motorcycles**
  - **259 property damage accidents involving motorcycles**

The Operator

Operator Action/ Contributing Circumstances	Number of Operators	Percent
Ran traffic control	44	2.9
Improper passing	41	2.7
Left of center, not passing	13	0.9
Failure to yield	45	3.0
Wrong way, one-way road	0	--
Speed too fast	177	11.7
Drag racing	3	0.2
Improper turn	6	0.4
Improper lane change	8	0.5
Following too close	37	2.4
Improper or no signal	3	0.2
Disregarded R.R. signal	1	0.1
Disregarded warning signal	2	0.1
Reckless driving	33	2.2
Improper backing	2	0.1
Illegal or improper parking	3	0.2
Failure to have control	418	27.6
Lights not on	0	--
Inattentive/distracted	72	4.7
Confused/inexperienced	72	4.7
Vision obscured	70	4.6
Oversized vehicle	1	0.1
Other	92	6.1

Note: From 0-2 actions/circumstances are listed for each operator involved in an accident.

Operator Condition	Number of Operators	Percent
Apparently normal	1,097	85.0
Drinking - impaired	116	9.0
Drinking - not impaired	65	5.0
Drugs	0	--
Physical defect	1	0.1
Fatigued	3	0.2
Apparently asleep	3	0.2
Ill	1	0.1
Under medication	0	--
Infirmities of age	1	0.1
Other	3	0.2
Total no. of operators (condition stated)	1,290	
Condition not stated	226	
GRAND TOTAL	1,516	

Note: Total percent may not equal 100 due to rounding.

Operator Sex	Number of Operators	Percent
Male	1,449	96.9
Female	46	3.1
Total no. of operators (sex known)	1,495	
Sex not stated	21	
GRAND TOTAL	1,516	

Operator Age	Number of Operators	Percent
15 & younger	33	2.2
16	45	3.0
17	62	4.2
18	103	6.9
19	122	8.2
20-24	427	28.7
25-34	415	27.9
35-44	170	11.4
45-54	63	4.2
55-64	36	2.4
65-74	12	0.8
75 & older	2	0.1
Total no. of operators (age known)	1,490	
Age not stated	26	
GRAND TOTAL	1,516	

Note: In 1989 motorcycle accidents, 75.5 percent of the motorcycle riders who were killed or injured were not wearing helmets, 14.5 percent were wearing helmets, and helmet use was unknown or unreported for 9.8 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	1,205	79.7
Turning left	95	6.3
Turning right	56	3.7
Backing	1	0.1
Stopped in traffic	10	0.7
Parked	16	1.1
Making U-turn	8	
Passing	37	
Changing lanes	12	
Merging	5	8.5
Parking	1	
Slowing-stopping	22	
Unattended moving vehicle	0	
Other	46	
Total no. of vehicles (action stated)	1,512	
Action not stated	20	
GRAND TOTAL	1,532	

Motorcyclists

Deaths/Injuries

1989 Deaths and Injuries by Age (includes passengers and drivers)

	Deaths	Injuries	% Wearing Helmets
Under 14	0	26	30.8
14-15	0	33	3.0
16	0	49	14.3
17	2	70	13.9
18	1	92	10.8
19	0	112	19.6
20	1	107	9.3
21-24	8	255	11.0
25-34	16	371	11.6
35-44	9	150	15.7
45-54	2	53	36.4
55-64	3	25	50.0
65-74	0	14	28.6
75+	0	3	0.0
Unknown	0	12	0.0
Total	42	1,372	14.5

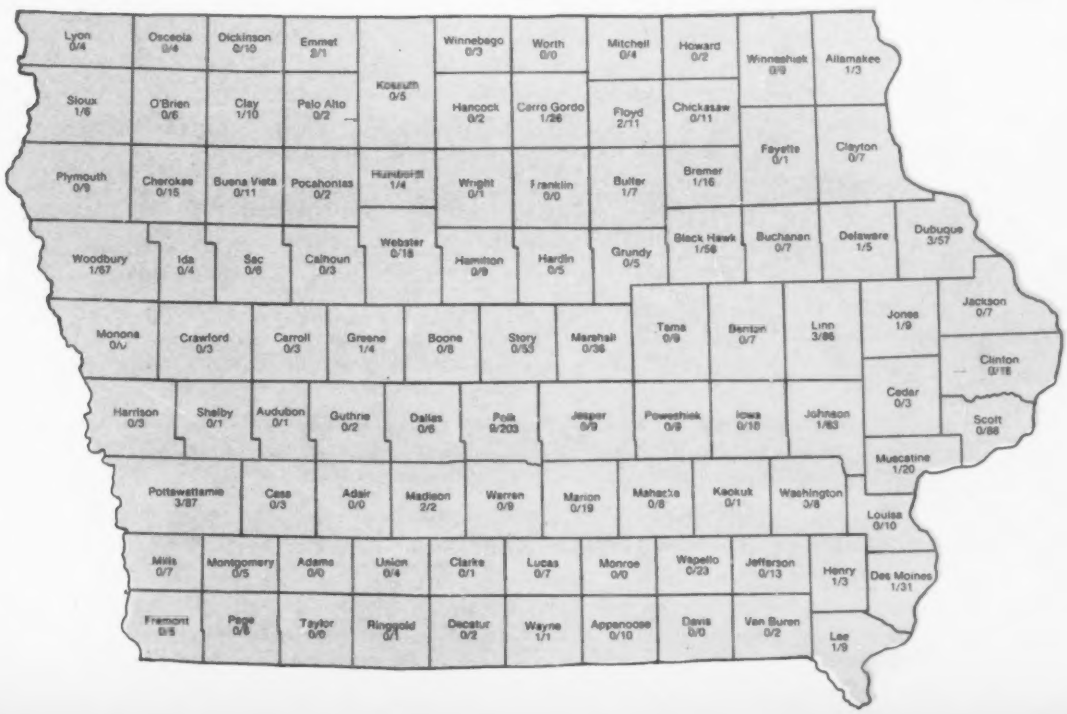
1989 Deaths and Injuries by Road Type

	Deaths		Injuries	
	Number Killed	% with Helmet	Number Injured	% with Helmet
Interstate	2	50.0	41	36.6
U.S. or state highways	17	11.8	424	15.3
County roads	11	18.2	194	17.5
City streets	12	0.0	698	12.2
Other	0	--	15	6.7
Total	42	11.9	1,372	14.6

1989 Deaths and Injuries by Month

	Deaths		Injuries		
	1989	% of Total	1989	% of Total	% Helmet Use
January	0	--	12	0.9	25.0
February	0	--	2	0.2	100.0
March	1	2.4	50	3.6	21.6
April	3	7.1	112	8.2	23.5
May	6	14.3	205	14.9	17.5
June	5	11.9	267	19.5	8.1
July	7	16.7	249	18.2	7.8
August	10	23.8	199	14.5	21.5
September	7	16.7	139	10.1	11.0
October	3	7.1	105	7.7	13.0
November	0	--	27	2.0	29.6
December	0	--	5	0.4	0.0
Total	42		1,372		14.5

1989 Fatalities/Injuries



Iowa
Accidents Involving
Mopeds

In 1989 there were:
- **1 moped operator or passenger killed**
- **236 moped operators or passengers injured**
- **261 accidents involving mopeds**
  - **1 fatal accident involving mopeds**
  - **237 personal injury accidents involving mopeds**
  - **23 property damage accidents involving mopeds**

The Operator

Operator Action/ Contributing Circumstances	Number of Operators	Percent
Ran traffic control	9	3.4
Improper passing	3	1.1
Left of center, not passing	3	1.1
Failure to yield	20	7.5
Wrong way, one-way road	0	--
Speed too fast	4	1.5
Drag racing	0	--
Improper turn	6	2.2
Improper lane change	2	0.7
Following too close	9	3.4
Improper or no signal	6	2.2
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	2	0.7
Improper backing	0	--
Illegal or improper parking	0	--
Failure to have control	47	17.5
Lights not on	1	0.4
Inattentive/distracted	22	8.2
Confused/inexperienced	33	12.3
Vision obscured	19	7.1
Oversized vehicle	0	--
Other	13	4.9

Note: From 0-2 actions/circumstances are listed for each operator involved in an accident.

Operator Condition	Number of Operators	Percent
Apparently normal	235	95.1
Drinking - impaired	4	1.6
Drinking - not impaired	0	--
Drugs	1	0.4
Physical defect	1	0.4
Fatigued	1	0.4
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	2	0.8
Other	3	1.2
Total no. of operators (condition stated)	247	
Condition not stated	21	
GRAND TOTAL	268	

Note: Total percent may not equal 100 due to rounding.

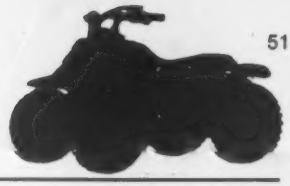
Operator Sex	Number of Operators	Percent
Male	201	75.6
Female	65	24.4
Total no. of operators (sex known)	266	
Sex not stated	2	
GRAND TOTAL	268	

Operator Age	Number of Operators	Percent
15 & younger	181	68.6
16	17	6.4
17	5	1.9
18	3	1.1
19	5	1.9
20-24	9	3.4
25-34	10	3.8
35-44	8	3.0
45-54	8	3.0
55-64	9	3.4
65-74	6	2.3
75 & older	3	1.1
Total no. of drivers (age known)	264	
Age not stated	4	
GRAND TOTAL	268	

Note: In 1989 moped accidents, 79.7 percent of the moped riders who were killed or injured were not wearing helmets, 5.9 percent were wearing helmets, and helmet use was unknown or unreported for 14.3 percent of those killed or injured.

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	194	72.7
Turning left	37	13.9
Turning right	17	6.4
Backing	0	--
Stopped in traffic	5	1.9
Parked	2	0.7
Making U-turn	2	4.5
Passing	4	
Changing lanes	1	
Merging	0	
Parking	0	
Slowing-stopping	4	
Unattended moving vehicle	0	
Other	1	
Total no. of vehicles (action stated)	267	
Action not stated	3	
GRAND TOTAL	270	



Iowa
Accidents Involving
All Terrain Vehicles

In 1989 there were:
- **3 ATV operators or passengers killed**
- **29 ATV operators or passengers injured**
- **32 accidents involving ATVs**
  - **3 fatal accidents involving ATVs**
  - **23 personal injury accidents involving ATVs**
  - **6 property damage accidents involving ATVs**

The Operator

Operator Actions Contributing Circumstances	Number of Operators	Percent
Ran traffic control	0	--
Improper passing	0	--
Left of center, not passing	2	6.1
Failure to yield	3	9.1
Wrong way, one-way road	0	--
Speed too fast	4	12.1
Drag racing	0	--
Improper turn	1	3.0
Improper lane change	0	--
Following too close	0	--
Improper or no signal	0	--
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	3	9.1
Improper backing	0	--
Illegal or improper parking	1	3.0
Failure to have control	8	24.2
Lights not on	0	--
Inattentive/distracted	3	9.1
Confused/inexperienced	5	15.2
Vision obscured	1	3.0
Oversized vehicle	0	--
Other	4	12.1

Note: From 0-2 actions/circumstances are listed for each operator involved in an accident.

Operator Condition	Number of Operators	Percent
Apparently normal	26	96.3
Drinking - impaired	1	3.7
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	0	--
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of operators (condition stated)	27	
Condition not stated	6	
GRAND TOTAL	33	

Note: Total percent may not equal 100 due to rounding.

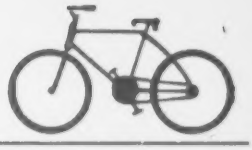
Operator Sex	Number of Operators	Percent
Male	27	87.1
Female	4	12.9
Total no. of operators (sex known)	31	
Sex not stated	2	
GRAND TOTAL	33	

Operator Age	Number of Operators	Percent
15 & younger	9	30.0
16	3	10.0
17	2	6.7
18	3	10.0
19	2	6.7
20-24	4	13.3
25-34	2	6.7
35-44	3	10.0
45-54	1	3.3
55-64	0	--
65-74	0	--
75 & older	1	3.3
Total no. of drivers (age known)	30	
Age not stated	3	
GRAND TOTAL	33	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	21	61.8
Turning left	2	5.9
Turning right	3	8.8
Backing	0	--
Stopped in traffic	1	2.9
Parked	1	2.9
Making U-turn	1	2.9
Passing	0	
Changing lanes	0	
Merging	0	14.7
Parking	0	
Slowing-stopping	0	
Unattended moving vehicle	0	
Other	5	
Total no. of vehicles (action stated)	34	
Action not stated	0	
GRAND TOTAL	34	

Iowa
Accidents Involving
Bicycles



In 1989 there were:

7 bicycle riders killed in bicycle/motor vehicle accidents
637 bicycle riders injured in bicycle/motor vehicle accidents
692 accidents involving bicycles/motor vehicles
7 fatal accidents involving bicycles/motor vehicles
644 personal injury accidents involving bicycles/motor vehicles
41 property damage accidents involving bicycles/motor vehicles

The Driver Of Motor Vehicle Involved

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	30	4.3
Improper passing	5	0.7
Left of center, not passing	4	0.6
Failure to yield	73	10.5
Wrong way, one-way road	0	--
Speed too fast	7	1.0
Drag racing	1	0.1
Improper turn	9	1.3
Improper lane change	2	0.3
Following too close	1	0.1
Improper or no signal	3	0.4
Disregarded R.R. signal	0	--
Disregarded warning signal	1	0.1
Reckless driving	4	0.6
Improper backing	5	0.7
Illegal or improper parking	1	0.1
Failure to have control	13	1.9
Lights not on	0	--
Inattentive/distracted	26	3.7
Confused/inexperienced	5	0.7
Vision obscured	121	17.4
Oversized vehicle	1	0.1
Other	10	1.4

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	601	96.6
Drinking - impaired	7	1.1
Drinking - not impaired	7	1.1
Drugs	2	0.3
Physical defect	0	--
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	5	0.8
Other	0	--
Total no. of drivers (condition stated)	622	
Condition not stated	73	
GRAND TOTAL	695	

Note: Total percent may not equal 100 due to rounding.

The Bicyclist

Bicyclist Sex	Killed	Injured
Male	4	455
Female	3	177
Total no. of bicyclists (sex known)	7	632
Sex not stated	0	5
GRAND TOTAL	7	637

Bicyclist Age	Killed	Injured
0-4	0	9
5-9	2	175
10-14	1	251
15-19	0	63
20-24	1	42
25-44	3	67
45-64	0	16
65 & older	0	2
Total no. of bicyclists (age known)	7	625
Age not stated	0	12
GRAND TOTAL	7	637

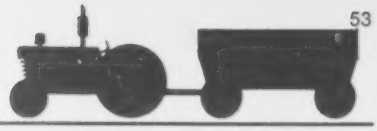
The Driver

Driver Age	Number of Drivers	Percent
15 & younger	4	0.6
16	20	3.1
17	35	5.4
18	35	5.4
19	30	4.6
20-24	81	12.4
25-34	137	21.0
35-44	105	16.1
45-54	59	9.1
55-64	56	8.6
65-74	60	9.2
75 & older	29	4.5
Total no. of drivers (age known)	651	
Age not stated	44	
GRAND TOTAL	695	

The Motor Vehicle

Vehicle Action	Number of Vehicles	Percent
Going straight	480	69.8
Turning left	89	12.9
Turning right	55	8.0
Backing	16	2.3
Stopped in traffic	15	2.2
Parked	5	0.7
Making U-turn	1	4.1
Passing	8	
Changing lanes	0	
Merging	1	
Parking	4	
Slowing-stopping	7	
Unattended moving vehicle	0	
Other	7	
Total no. of vehicles (action stated)	688	
Action not stated	12	
GRAND TOTAL	700	

Iowa Accidents Involving Farm Vehicles



In 1989 there were:

- **8 farm vehicle occupants killed**
- **50 farm vehicle occupants injured**
- **285 accidents involving farm vehicles**
  - **10 fatal accidents involving farm vehicles**
  - **113 personal injury accidents involving farm vehicles**
  - **162 property damage accidents involving farm vehicles**

12 persons were killed in farm vehicle accidents. Of this number, 4 (33.3 percent) were not farm vehicle occupants.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	4	1.4
Improper passing	0	--
Left of center, not passing	7	2.5
Failure to yield	21	7.4
Wrong way, one-way road	0	--
Speed too fast	1	0.4
Drag racing	0	--
Improper turn	6	2.1
Improper lane change	3	1.1
Following too close	1	0.4
Improper or no signal	18	6.3
Disregarded R.R. signal	1	0.4
Disregarded warning signal	2	0.7
Reckless driving	0	--
Improper backing	3	1.1
Illegal or improper parking	2	0.7
Failure to have control	20	7.0
Lights not on	0	--
Inattentive/distracted	18	6.3
Confused/inexperienced	7	2.5
Vision obscured	43	15.1
Oversized vehicle	10	3.5
Other	23	8.1

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	259	97.7
Drinking - impaired	2	0.8
Drinking - not impaired	1	0.4
Drugs	0	--
Physical defect	1	0.4
Fatigued	0	--
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	1	0.4
Other	1	0.4
Total no. of drivers	265	
Condition not stated	20	
GRAND TOTAL	285	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	268	95.4
Female	13	4.6
Total no. of drivers (sex known)	281	
Sex not stated	4	
GRAND TOTAL	285	

Driver Age	Number of Drivers	Percent
15 & younger	13	4.6
16	3	1.1
17	5	1.8
18	7	2.5
19	5	1.8
20-24	24	8.5
25-34	62	22.0
35-44	38	13.5
45-54	39	13.8
55-64	41	14.5
65-74	38	13.5
75 & older	7	2.5
Total no. of drivers (age known)	282	
Age not stated	3	
GRAND TOTAL	285	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	151	53.4
Turning left	97	34.3
Turning right	7	2.5
Backing	5	1.8
Stopped in traffic	5	1.8
Parked	1	0.3
Making U-turn	2	
Passing	2	
Changing lanes	0	
Merging	1	6.0
Parking	0	
Slowing-stopping	4	
Unattended moving vehicle	1	
Other	7	
Total no. of vehicles (action stated)	283	
Action not stated	4	
GRAND TOTAL	287	

Iowa
Accidents Involving

Tow/Maintenance/ Construction Vehicles

In 1989 there were:

1 tow/maintenance/construction vehicle occupant killed
38 tow/maintenance/construction vehicle occupants injured
493 accidents involving tow/maintenance/construction vehicles
3 fatal accident involving tow/maintenance/ construction vehicles
120 personal injury accidents involving tow/ maintenance/construction vehicles
370 property damage accidents involving tow/ maintenance/construction vehicles

3 persons were killed in tow/maintenance/construction vehicle accidents. Of this number 2 (66.7 percent) was not a tow/ maintenance/construction vehicle occupant.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	19	4.1
Improper passing	6	1.3
Left of center, not passing	10	2.1
Failure to yield	23	4.9
Wrong way, one-way road	0	--
Speed too fast	17	3.6
Drag racing	0	--
Improper turn	7	1.5
Improper lane change	6	1.3
Following too close	10	2.1
Improper or no signal	1	0.2
Disregarded R.R. signal	0	--
Disregarded warning signal	1	0.2
Reckless driving	0	--
Improper backing	26	5.6
Illegal or improper parking	1	0.2
Failure to have control	25	5.4
Lights not on	1	0.2
Inattentive/distracted	25	5.4
Confused/inexperienced	3	0.6
Vision obscured	36	7.7
Oversized vehicle	4	0.9
Other	24	5.2

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	423	97.7
Drinking - impaired	4	0.9
Drinking - not impaired	0	--
Drugs	0	--
Physical defect	0	--
Fatigued	2	0.5
Apparently asleep	0	--
Ill	0	--
Under medication	0	--
Infirmities of age	2	0.5
Other	2	0.5
Total no. of drivers (condition stated)	433	
Condition not stated	33	
GRAND TOTAL	466	

Note: Total percent may not equal 100 due to rounding.

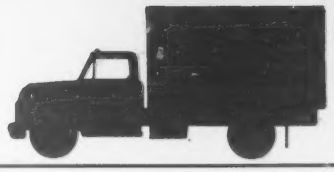
Driver Sex	Number of Drivers	Percent
Male	441	97.4
Female	12	2.6
Total no. of drivers (sex known)	453	
Sex not stated	13	
GRAND TOTAL	466	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	0	--
18	6	1.3
19	7	1.5
20-24	33	7.3
25-34	143	31.6
35-44	121	26.8
45-54	70	15.5
55-64	60	13.3
65-74	11	2.4
75 & older	1	0.2
Total no. of drivers (age known)	452	
Age not stated	14	
GRAND TOTAL	466	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	252	51.4
Turning left	48	9.8
Turning right	24	4.9
Backing	54	11.0
Stopped in traffic	21	4.3
Parked	27	5.5
Making U-turn	3	
Passing	4	
Changing lanes	11	
Merging	1	13.1
Parking	0	
Slowing-stopping	12	
Unattended moving vehicle	3	
Other	30	
Total no. of vehicles (action stated)	490	
Action not stated	6	
GRAND TOTAL	496	

Note: Total number of vehicles includes parked tow/maintenance/construction vehicles involved in accidents.



Iowa Accidents Involving Straight Trucks

In 1989 there were:

- **3 straight truck occupants killed**
- **189 straight truck occupants injured**
- **1,380 accidents involving straight trucks**
  - **17 fatal accidents involving straight trucks**
  - **387 personal injury accidents involving straight trucks**
  - **976 property damage accidents involving straight trucks**

18 persons were killed in straight truck accidents. Of this number 15 (83.3 percent) were not straight truck occupants.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	95	7.0
Improper passing	22	1.6
Left of center, not passing	19	1.4
Failure to yield	64	4.7
Wrong way, one-way road	2	0.1
Speed too fast	41	3.0
Drag racing	0	--
Improper turn	18	1.3
Improper lane change	26	1.9
Following too close	31	2.3
Improper or no signal	11	0.8
Disregarded R.R. signal	2	0.1
Disregarded warning signal	3	0.2
Reckless driving	0	--
Improper backing	43	3.2
Illegal or improper parking	3	0.2
Failure to have control	138	10.1
Lights not on	2	0.1
Inattentive/distracted	68	5.0
Confused/inexperienced	15	1.1
Vision obscured	109	8.0
Oversized vehicle	9	0.7
Other	116	8.5

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	1,214	97.6
Drinking - impaired	6	0.5
Drinking - not impaired	3	0.2
Drugs	0	--
Physical defect	1	0.1
Fatigued	3	0.2
Apparently asleep	10	0.8
Ill	2	0.2
Under medication	0	--
Infirmities of age	1	0.1
Other	4	0.3
Total no. of drivers (condition stated)	1,244	
Condition not stated	118	
GRAND TOTAL	1,362	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	1,296	96.9
Female	42	3.1
Total no. of drivers (sex known)	1,338	
Sex not stated	24	
GRAND TOTAL	1,362	

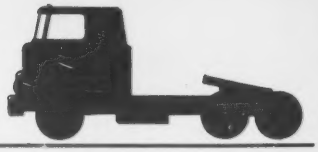
Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	1	0.1
17	2	0.2
18	19	1.4
19	29	2.2
20-24	197	14.8
25-34	411	30.9
35-44	266	20.0
45-54	192	14.4
55-64	150	11.3
65-74	52	3.9
75 & older	11	0.8
Total no. of drivers (age known)	1,330	
Age not stated	32	
GRAND TOTAL	1,362	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	811	58.2
Turning left	145	10.4
Turning right	95	6.8
Backing	79	5.7
Stopped in traffic	54	3.9
Parked	38	2.7
Making U-turn	3	
Passing	26	
Changing lanes	32	
Merging	12	12.3
Parking	4	
Slowing-stopping	51	
Unattended moving vehicle	9	
Other	34	
Total no. of vehicles (action stated)	1,393	
Action not stated	16	
GRAND TOTAL	1,409	

Note: Total number of vehicles includes parked straight trucks involved in accidents.

Iowa Accidents Involving Truck Tractors



In 1989 there were:
- **0 truck tractor occupant killed**
- **15 truck tractor occupants injured**
- **160 accidents involving truck tractors**
  - **0 fatal accidents involving truck tractors**
  - **36 personal injury accidents involving truck tractors**
  - **124 property damage accidents involving truck tractors**

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	10	6.5
Improper passing	2	1.3
Left of center, not passing	0	--
Failure to yield	3	1.9
Wrong way, one-way road	0	--
Speed too fast	2	1.3
Drag racing	0	--
Improper turn	8	5.2
Improper lane change	7	4.5
Following too close	5	3.2
Improper or no signal	2	1.3
Disregarded R.R. signal	0	--
Disregarded warning signal	0	--
Reckless driving	0	--
Improper backing	2	1.3
Illegal or improper parking	0	--
Failure to have control	15	9.7
Lights not on	0	--
Inattentive/distracted	4	2.6
Confused/inexperienced	4	2.6
Vision obscured	9	5.8
Oversized vehicle	1	0.6
Other	14	9.0

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

Driver Condition	Number of Drivers	Percent
Apparently normal	134	95.7
Drinking - impaired	2	1.4
Drinking - not impaired	1	0.7
Drugs	1	0.7
Physical defect	0	--
Fatigued	1	0.7
Apparently asleep	1	0.7
Ill	0	--
Under medication	0	--
Infirmities of age	0	--
Other	0	--
Total no. of drivers (condition stated)	140	
Condition not stated	15	
GRAND TOTAL	155	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	141	93.4
Female	10	6.6
Total no. of drivers (sex known)	151	
Sex not stated	4	
GRAND TOTAL	155	

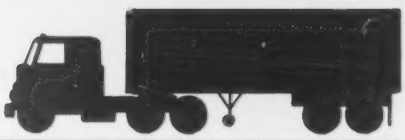
Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	0	--
17	0	--
18	0	--
19	1	0.7
20-24	11	7.4
25-34	53	35.8
35-44	34	23.0
45-54	31	20.9
55-64	13	8.8
65-74	5	3.4
75 & older	0	--
Total no. of drivers (age known)	148	
Age not stated	7	
GRAND TOTAL	155	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	90	55.6
Turning left	18	11.1
Turning right	18	11.1
Backing	3	1.9
Stopped in traffic	1	0.6
Parked	9	5.6
Making U-turn	0	
Passing	8	
Changing lanes	5	
Merging	0	14.2
Parking	0	
Slowing-stopping	7	
Unattended moving vehicle	0	
Other	3	
Total no. of vehicles (action stated)	162	
Action not stated	2	
GRAND TOTAL	164	

Note: Total number of vehicles includes parked truck tractors involved in accidents.

Iowa Accidents Involving Truck Tractors With Trailers



In 1989 there were:

- **9 occupants of truck tractors with trailers killed**
- **269 occupants of truck tractors with trailers injured**
- **2,408 accidents involving truck tractors with trailers**
  - **63 fatal accidents involving truck tractors with trailers**
  - **603 personal injury accidents involving truck tractors with trailers**
  - **1,742 property damage accidents involving truck tractors with trailers**

68 persons were killed in truck tractor with trailers accidents. Of this number, 59 (86.8 percent) were not occupants of truck tractors with trailers.

The Driver

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	75	3.1
Improper passing	55	2.3
Left of center, not passing	21	0.9
Failure to yield	51	2.1
Wrong way, one-way road	0	--
Speed too fast	88	3.6
Drag racing	0	--
Improper turn	94	3.9
Improper lane change	88	3.6
Following too close	57	2.3
Improper or no signal	8	0.3
Disregarded R.R. signal	3	0.1
Disregarded warning signal	11	0.5
Reckless driving	3	0.1
Improper backing	64	2.6
Illegal or improper parking	13	0.5
Failure to have control	295	12.1
Lights not on	1	*
Inattentive/distracted	125	5.1
Confused/inexperienced	33	1.4
Vision obscured	203	8.4
Oversized vehicle	32	1.3
Other	168	6.9

Note: From 0-2 actions/circumstances are listed for each driver involved in an accident.

*Less than one-tenth of one percent.

Driver Condition	Number of Drivers	Percent
Apparently normal	2,121	96.2
Drinking - impaired	7	0.3
Drinking - not impaired	6	0.3
Drugs	5	0.2
Physical defect	1	*
Fatigued	16	0.7
Apparently asleep	32	1.5
Ill	4	0.2
Under medication	4	0.2
Infirmities of age	2	0.1
Other	6	0.3
Total no. of drivers (condition stated)	2,204	
Condition not stated	227	
GRAND TOTAL	2,431	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	2,275	96.0
Female	94	4.0
Total no. of drivers (sex known)	2,369	
Sex not stated	62	
GRAND TOTAL	2,431	

Driver Age	Number of Drivers	Percent
15 & younger	1	*
16	1	*
17	3	0.1
18	3	0.1
19	9	0.4
20-24	182	7.8
25-34	791	34.1
35-44	617	26.6
45-54	453	19.5
55-64	225	9.7
65-74	27	1.2
75 & older	8	0.3
Total no. of drivers (age known)	2,320	
Age not stated	111	
GRAND TOTAL	2,431	

The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	1,365	55.5
Turning left	203	8.2
Turning right	366	14.9
Backing	104	4.2
Stopped in traffic	56	2.3
Parked	60	2.4
Making U-turn	5	
Passing	63	
Changing lanes	113	
Merging	19	12.5
Parking	9	
Slowing-stopping	56	
Unattended moving vehicle	3	
Other	39	
Total no. of vehicles (action stated)	2,461	
Action not stated	33	
GRAND TOTAL	2,494	

Note: Total number of vehicles includes parked truck tractors with trailers involved in accidents.

Iowa Accidents Involving Trains

In 1989 there were:

7 persons killed in train/motor vehicle accidents
80 persons injured in train/motor vehicle accidents
136 train/motor vehicle accidents involving 133 trains and 133 vehicles
6 fatal accidents involving trains/motor vehicles
57 personal injury accidents involving trains/motor vehicles
73 property damage accidents involving trains/motor vehicles

(All figures apply to train/motor vehicle accidents at public crossings. Private crossing accident information is not included. All persons killed were motor vehicle drivers, riders or occupants.)

The Driver Of Motor Vehicle Involved

Driver Action/ Contributing Circumstances	Number of Drivers	Percent
Ran traffic control	11	8.0
Failure to yield	12	8.8
Speed too fast	5	3.6
Improper or no signal	1	0.7
Disregarded R.R. signal	43	31.4
Disregarded warning signal	11	8.0
Reckless driving	0	--
Illegal or improper parking	3	2.2
Failure to have control	10	7.3
Inattentive/distracted	19	13.9
Confused/inexperiences	6	4.4
Vision obscured	16	11.7
None apparent	0	0.0
Other	12	8.8
Not Stated	0	0.0

Driver Condition	Number of Drivers	Percent
Apparently normal	95	77.9
Drinking - impaired	13	10.7
Drinking - not impaired	9	7.4
Drugs	0	--
Physical defect	0	--
Fatigued	2	1.6
Apparently asleep	0	--
Ill	1	0.8
Under medication	0	--
Infirmities of age	0	--
Other	2	1.6
Total no. of drivers (condition stated)	122	
Condition not stated	15	--
GRAND TOTAL	137	

Note: Total percent may not equal 100 due to rounding.

Driver Sex	Number of Drivers	Percent
Male	108	78.8
Female	29	21.2
Total no. of drivers (sex known)	137	
Sex not stated	0	
GRAND TOTAL	137	

Driver Age	Number of Drivers	Percent
15 & younger	0	--
16	3	2.2
17	2	1.5
18	6	4.4
19	7	5.1
20-24	30	21.9
25-34	37	27.0
35-44	17	12.4
45-54	13	9.5
55-64	11	8.0
65-74	8	5.8
75 & older	3	2.2
Total no. of drivers (age known)	137	
Age not stated	0	
GRAND TOTAL	137	

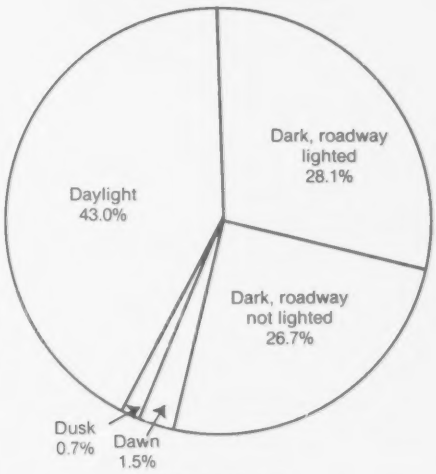
The Machine

Vehicle Action	Number of Vehicles	Percent
Going straight	109	80.7
Turning left	2	1.5
Turning right	2	1.5
Backing	0	--
Stopped in traffic	9	6.7
Parked	0	--
Making U-turn	0	
Passing	0	
Changing lanes	1	
Merging	0	9.6
Parking	0	
Slowing-stopping	1	
Unattended moving vehicle	0	
Other	11	
Total no. of vehicles (action stated)	135	
Action not stated	2	
GRAND TOTAL	137	

Trains/1989

Accidents By Month

Light Conditions



Weather